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Z-LINE®

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ISO9001

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PLEASE TAKE NOTE OF THE FOLLOWING PART NUMBER REPLACEMENTS:

1. The TPC115-8 series has been replaced by the TPC981 series
2. The PC300 series has been replaced by the PC2641 series
3. The PC2034 series has been replaced by the PC2646 series
4. The PC301-I/MTD series has been replaced by the PC302-I/MTD series
5. The TPC2364 series has been replaced by the TPC2365 series
6. The IPC3101, IPC3102, IPC3201, IPC3202, IPC3301, and IPC3302 have been replaced by the IPC34XX series
7. PC500 series has been replaced by the PC5585 series

PULIZZI ENGINEERING, INC. TRADEMARKS AND REGISTERED TRADEMARKS:

1. Multiple Time Delay™
2. Pulizzi®
3. Z-LINE®
4. RACK POWER™
5. RACK-POWER™
6. Smart Power Controller™
7. Smart Power™
8. SMC™
9. Dial-A-Switch™
10. Dial-A-Power™
11. MTD™
12. PEI™
13. AC POWER MASTER™
14. IPC™
15. Intelligent Power Controller™
16. Intelligent Power Control™
17. Intelligent Power™
18. SPC™
19. Smart Micro Controller™
20. INTELIPRO™
21. PROTEK™
22. VPC™
23. Vertical Power Controller™

PULIZZI ENGINEERING, INC. PATENTS:

1. U.S. Patent: 6,137,706 Dual-input, automatic switching power supply
2. U.S. Patent: 4,918,562 Power controller with voltage-controlled circuit breaker
3. U.S. Patent: 5,923,103 Switched-output controller apparatus with repeater function and method for constructing same
4. U.S. Patent: 4,769,555 Multi-time delay power controller apparatus with time delay turn-on and turn-off
5. U.S. Patent: 5,450,334 One-time programmable switched-output controller
6. U.S. Patent: 4,719,364 Multiple time delay power controller apparatus
7. U.S. Patent: 6,250,956 Electrical equipment and method of assembling same
8. Canadian Patent Pending: 2,325,648 Electrical equipment and method of assembling same
9. Canadian Patent: 1,303,718 Multiple time delay power controller apparatus with time delay turn-on and turn-off
10. Canadian Patent: 1,280,501 Multiple time delay power controller apparatus
11. PCT Patent Pending: No. PCT/US00/22900 Dual-input, automatic switching power supply
12. NEMA application, Patent Pending, Filled Oct. 19, 2001

PULIZZI ENGINEERING, INC. ACCEPTS

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ISO 9001 Registered

QUALITY POLICY:

WE SHALL STRIVE TO ACHIEVE THE HIGHEST CUSTOMER SATISFACTION THROUGH ON-TIME DELIVERY, PRODUCT ACCEPTANCE AND CONTINUED PROCESS IMPROVEMENT.

TODAY

Pulizzi Engineering Inc. is a worldwide leader in the design and production of rack mounted Power Distribution Units (PDUs) and Intelligent Power Control™ Systems (IPCs). The IPCs provide remote access via WAN/LAN, TCP/IP, Modem and Direct-Serial RS232 connections whereas the PDUs provide remote access via a direct locking connector. The PDUs and IPCs are available with Pulizzi® patented automatic and programmable Multiple Time Delay™ Power Up and Power Down technology to control system start-up and reduce in-rush current problems.

Pulizzi® has always been at the leading edge of technology and was the first to introduce Intelligent Power Control™, 1U three-phase 30A systems, Multiple Time Delay™ and many other, now industry standard, features. Pulizzi® is also ahead of the pack when it comes to safety, which is why they are already providing products that meet U.S., Canadian and International safety requirements that are not mandatory for the industry until April 2003. Many of their single and three-phase systems come with the UL/cUL Listed mark, which are tested and approved to the U.S. and Canadian (Bi-National) Standard for Safety of Information Technology Equipment, CSA C22.2 No. 60950, UL 60950 Third Edition, dated December 1, 2000. Safety approvals also include TUV IEC60950: 1991+A1+A2+A3+A4 Second Edition. The systems that are designed for use internationally can also be used domestically (voltage selectable: 120 or 240 single phase and 120/208 or 230/400V three-phase) and include the CE mark.

The Pulizzi® web sites (www.pulizzi.com and www.z-line.com) have been on-line since 1996. Today, you can search the growing engineering database of over 500 designs, access related industry and safety agency web sites and download a tremendous amount of information. You can specify the product that best meets your requirements, request a quotation, and communicate quickly and efficiently with the Pulizzi® staff.

THE AMERICAN DREAM

To set the story appropriately, one needs to know that Mr. Pulizzi is the first born in America. According to Michael, VP of New Business Development: “My dad came home one day from work and showed us kids and my mom how to put a few boards together for a friend of his at another company. Several months later we had trucks pulling up to our house and we employed many of the kids in the neighborhood part-time for the summer. We ended up, over time, occupying the 2-car garage, patio, and kitchen and finally moved to a larger house and hired several of the kids in that neighborhood as well. Through high school, our friends worked part time at Pulizzi Engineering.”

In 1973, Mr. Pulizzi and his wife founded the company as a part-time venture primarily as a manufacturing house for MDB systems (now a Lockheed company), Rockwell, TRW, Teledyne and many other local Southern California companies. In 1977, the part-time effort became full-time and in 1978 Pulizzi Engineering moved from within their home, into its first industrial facility.

In 1979, they incorporated under the laws of the State of California and in 1980, purchased a much larger industrial building. Currently three industrial facilities, within the same complex, are owned and occupied by Pulizzi Engineering Inc. Additional office space in Sioux Falls, SD is home to the international sales and technical support departments.

Head-quartered in Santa Ana, California, Pulizzi was founded with a commitment to quality and service. It is that continued commitment that keeps their clients, from around the world, coming back year after year.



Peter S. Pulizzi, President

The Pulizzi creed, **"Better, Faster, and Less Expensive than you can produce in-house. You have my name on it."** is something the company takes very seriously. Providing quality, affordable, on-time products is the commitment that delivers success to both the client and Pulizzi Engineering Inc.



- Corporate: 3200 S. Susan St., Santa Ana, CA 92704-6865
- Federal ID: 95-3411351
- Dun & Bradstreet: 092735521
- ISO 9001 Registration No: 950-99-0484
- SIC Code: 3612 Power, distribution, and specialty transformers (NAICS 335311)
- SIC Code: 3625 Relays and industrial controls (NAICS 335314)
- SIC Code: 3643 Current-Carrying wiring devices (NAICS 335931)
- SIC Code: 3613 Switchgear and switchboard apparatus (NAICS 335213)
- SIC Code: 3629 Electrical industrial apparatus, NEC (NAICS 335999)
- SIC Code: 3679 Printed circuit / electronic assembly (NAICS 334418)
- CAGE Code: 70512
- Federal Supply Codes/Product Service Codes: 6120 - Transformers, Distribution and Power Station and 6150 - Miscellaneous Electric Power and Distribution Equipment
- ANSI/ISO/ASQC Q9004-1-1994 and ANSI/INCSL 2540-1 Calibration

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About PULIZZI ENGINEERING Products

Why spend your money on developing and producing a power distribution system when Pulizzi® currently has over 500 searchable assemblies on their web site (www.pulizzi.com). If you do not find one or more that meet your requirements, Pulizzi® can develop a system to meet your specific needs.

Pulizzi® systems are utilized by the following industries but are not limited in use to these industries:

- Audio, Video, Broadcast and Entertainment (rides, attractions, stage, sound)
- Military and Aerospace (ships, submarines, simulators, aircraft, satellite, missiles, launch pads, control rooms)
- Data Communications (banks, securities, stock exchange, internet)
- OEM's
- System integrators and VARS
- Medical
- Test and Measurement

Pulizzi® is ISO 9001 Registered and their systems typically include one or more of the following agency approvals:

NEW FEATURE:

A two-position digital full load current display for use in single phase and three-phase, 15A, 20A or 30A systems. Reference page 11 for the T982 as an example.

Pulizzi® standard systems range from:

- Single-phase 120V and 240V
- Three-phase 120/208Y and 230/400Y
- 15A, 20A, and 30A inputs
- There are even systems available that combine voltages so that (1) single-phase or (1) three-phase system can be utilized in your rack, no matter where in the world the final destination might be.

Pulizzi® systems are built to last:

- 16GA Cold Rolled Steel construction, zinc plated, gold in color or 16GA EG Steel construction painted black
- EIA Standards for 19" rack mount, and Hole Spacing to IEC 297
- All systems, where applicable, come standard with circuit breaker kick guards
- Pulizzi® recommends that you use support brackets with the PDUs

Pulizzi® systems typically include (see individual product specifications):

- Circuit breaker protection
- EMI/RFI filtering
- Multi-Stage surge suppression
- Remote on/off and EPO control
- Automatically sequence power up and down between outlets or phases with Pulizzi®'s patented Multiple Time Delay™
  - Sequencing power might allow use of a single-phase system instead of a three-phase system. This saves rack space as well as money.
  - Sequencing power allows use of an over-current protection device rated more closely to operating current instead of start-up current.
  - Sequencing power lowers the total KVA rating and therefore, allows for the use of a smaller UPS system, if required.
  - Sequencing power will help limit, if not eliminate, in-rush current problems.
  - Sequencing power will reduce peak energy consumption, thereby lowering energy costs.

Check out just a few new systems from Pulizzi® in this catalog:



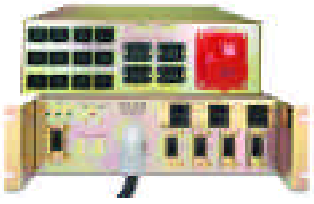
PC2641/MTD: 120/208Y, 30A, 2U
pg. 27



TPC4100: 120/208Y, 30A, 1U
pg. 24



IPC3402-NET: 85-264VACV, 20A, 1U
Remote power management-reboot
pgs. 6-7



PC2672: 120/208Y or 230/400Y, 30A, 3U
pg. 31



TPC2105: 85-264VAC, 30A, 1U
pg. 17

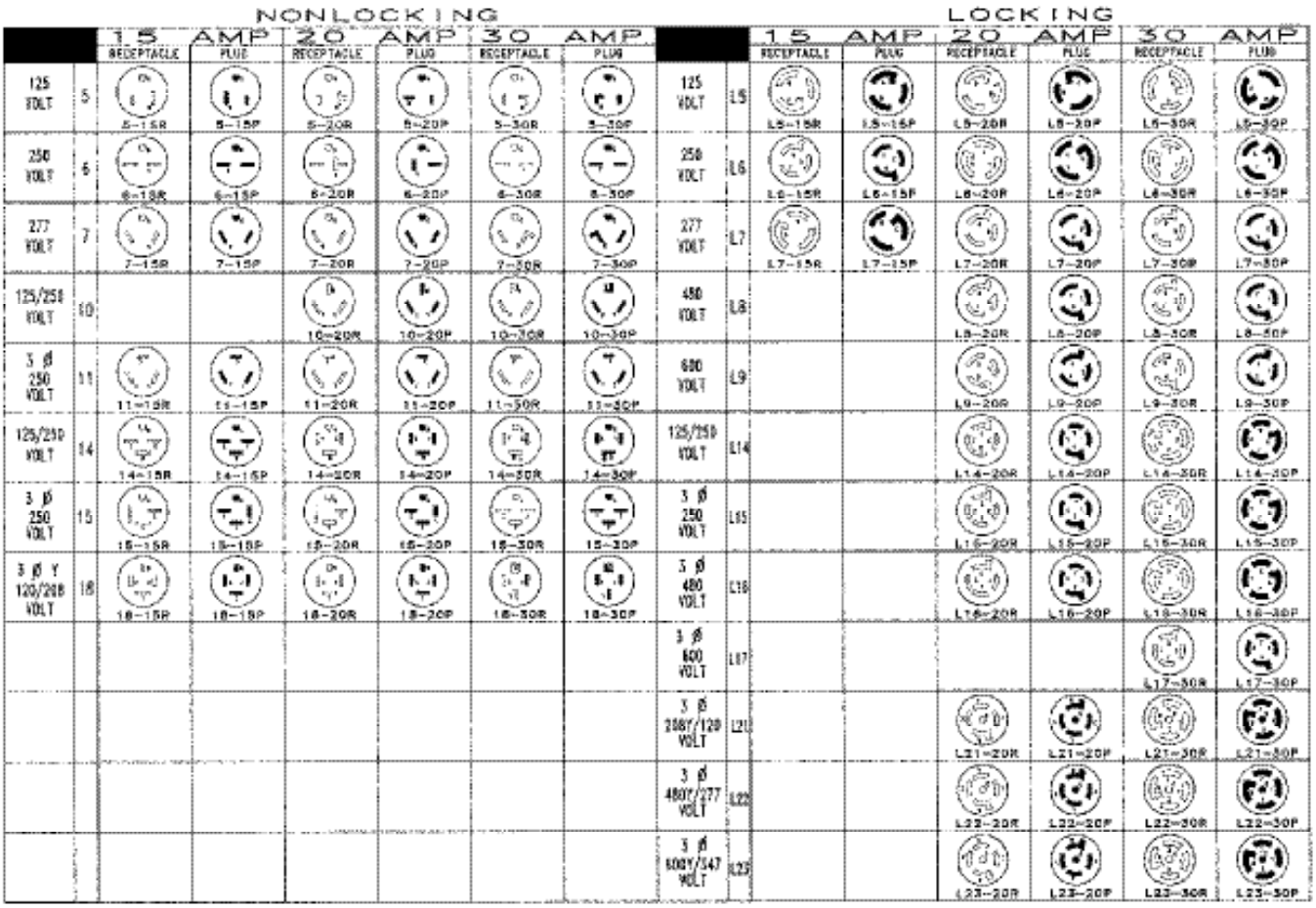


T982: 120V, 30A, 1U
With current meter
pg. 11

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NEMA Chart



THE IEC ADVANTAGE:
The IEC60320 and IEC60309 connectors described below are the most commonly specified. The IEC connector system is used throughout the world. By utilizing a Pulizzi® Power Distribution System with the IEC connectors, you can attach the correct cable assembly for British, Australian, Continental European, North American and many other cable/connector configurations. This allows you to purchase and inventory one PDU for shipment anywhere in the world.



C13 (mates to C14) is rated by UL/CSA at 15A and European agencies rate it at 10A / 250VAC.



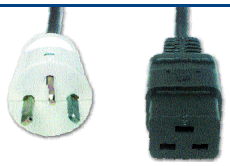
C13 is available in multiple outlet sections. UL/CSA rates the entire section at 15A and European agencies rate it at 10A / 250VAC.



C19 outlet is rated by UL/CSA at 20A and European agencies rate it at 16A / 250VAC.



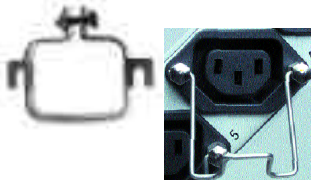
C20 power inlet is rated by UL/CSA at 20A and European agencies rate it at 16A / 250VAC.



On the right is a C19 which mates to the C20. On the left is a Schuko plug standard for Europe. Plugs from around the world are used with the C19 or with the C13 connectors.



IEC60309 pin & sleeve locking plugs and outlets are rated up to 690VAC at 125A and are used domestically and internationally for single-phase and three-phase power requirements. The most common are 16A and 20A single phase for providing power to equipment through the C20 inlet.



Clamp and swivel bale type locking retaining clips can only be used with screw mounted IEC C14 and C20 inlets.

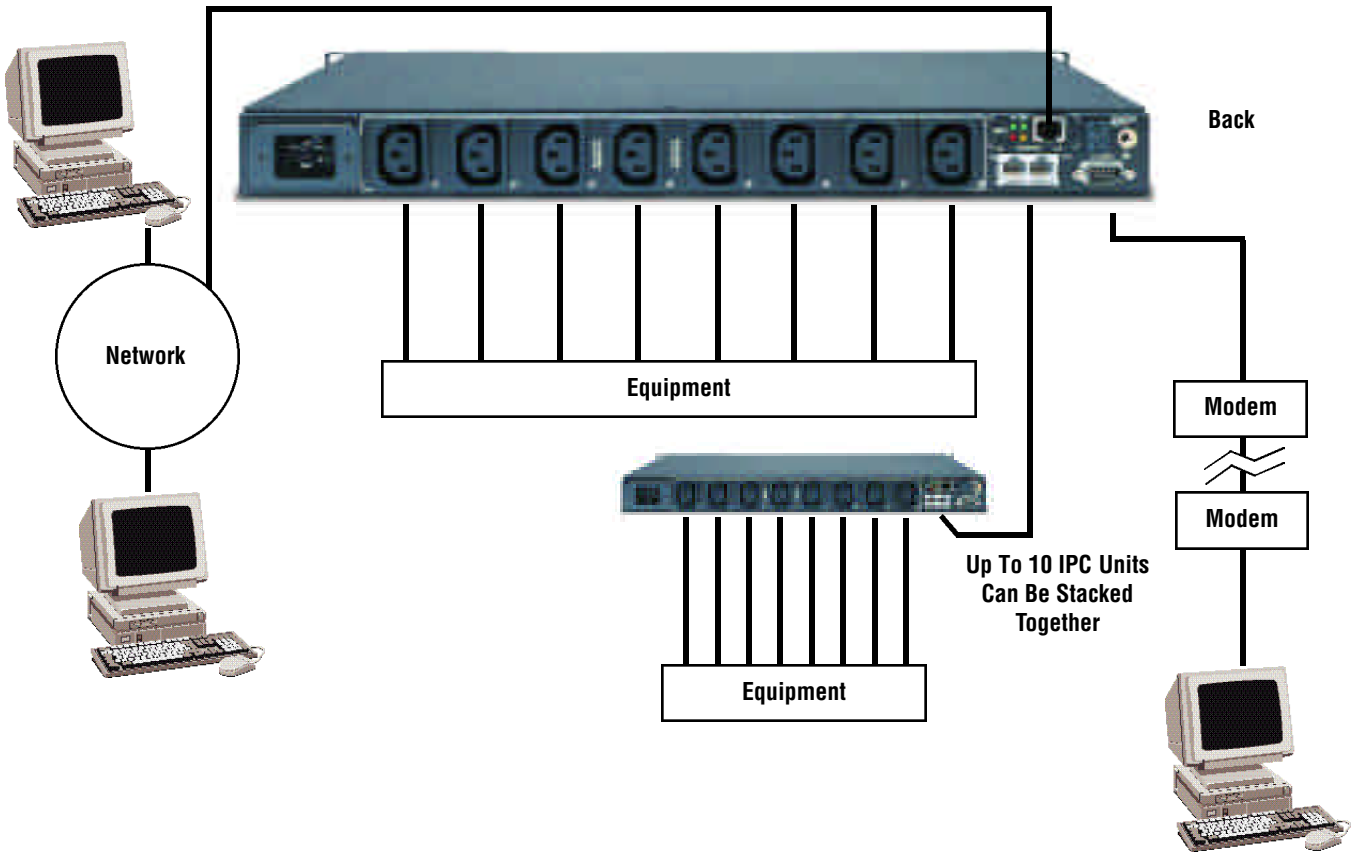
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INTELLIGENT POWER CONTROL™
IPC34XX-NET SERIES

(Replaces IPC31XX, IPC32XX and IPC33XX Series)



- **Remote access via WAN/LAN, TCP/IP, Modem, or Direct RS-232:**
  Prevent costly site visits with remote-reboot and power management.
- **Sequence power up and down with Pulizzi's® patented Multiple Time Delay™ circuitry:**
  Prevent in-rush current problems such as system lock-ups and automatically control the order in which equipment within your network powers up or down.
- **Strap up to 10 IPC34XX systems together for control of 80 outlets:**
  Use one IPC34XX-NET unit as the main system and strap (nine) less expensive IPC34XX (non-NET) units together to save money and increase overall control of your network equipment.
- **85-264VAC / 20A input (IPC3401-NET):**
  One unit to purchase, stock and utilize worldwide.
- **Remote access disable and Local on/off control:**
  When you need to work locally with the IPC34XX systems, the push of a button will prevent anyone from coming in remotely and the individual outlet on/off switches are also located on the front panel.
- **Cross platform compatible:**
  With any telnet type software, you can easily access and control the IPC34XX command structure.



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INTELLIGENT POWER CONTROL™



IPC3402-NET Rear Panel



IPC3401-NET Rear Panel

SPECIFICATIONS:	IPC3401	IPC3401-NET	IPC3402	IPC3402-NET	IPC3402-A2	IPC3402-A2-NET
Approvals	N/A	N/A	N/A	N/A	N/A	N/A
Voltage 50/60Hz	85-264V~	85-264V~	120V~	120V~	120V~	120V~
Current Input	20A @ 120V~ 16A @ 240V~	20A @ 120V~ 16A @ 240V~	20A	20A	20A	20A
Current Output	16A	16A	16A	16A	16A	16A
Full Load V/A De-rated	1920VA @ 120V~ 3840VA @ 240V~	1920VA @ 120V~ 3840VA @ 240V~	1920VA	1920VA	1920VA	1920VA
Outlets	IEC60320 Type C13	IEC60320 Type C13	NEMA 5-15R	NEMA 5-15R	NEMA 5-20R	NEMA 5-20R
Circuit Breaker	20/20A	20/20A	20A	20A	20A	20A
EMI/RFI Filter	20A	20A	20A	20A	20A	20A
Surge Suppression	270V	270V	270V	270V	270V	270V
Power Inlet (IEC60320)	Type C20	Type C20	Type C20	Type C20	Type C20	Type C20
Ethernet Control	N/A	YES	N/A	YES	N/A	YES
Serial Control (RS232)	YES	YES	YES	YES	YES	YES

Power Cable: Order Separately see page 36.

CHASSIS
- 19" x 1.75" (1U) x 9.5"
- Weight approximately 19lbs
- Adjustable mounting to front or rear panel or center mount
- Optional vertical or under counter mounting brackets 001-1928-1 (2 required)

NEMA or IEC 320 OUTLETS
- IPC3401 has 8 IEC60320 Type C13
  - Rated by UL/CSA 125V~/15A
  - Rated by UL/CSA/VDE 250V~/10A
- IPC3402 has 8 NEMA 5-15R
- IPC3402-A2 has 8 NEMA 5-20R

(11) INDICATOR LIGHTS
- Power available to system-CB "on"
- Power "on" to outlets 1-8
- Data acquisition
- Remote Disable

REMOTE or LOCAL CONTROL
- Serial RS232 port (DB9 Male) for direct or modem connection
- RS485 input/output ports for strapping up to 10 systems together over a CAT.5 cable
- Local: one on/off switch for each outlet
- -NET SYSTEMS ONLY: RJ45 for network connections (Ethernet)

REMOTE DISABLE
- With the push of a button, disable remote access to the IPC when needed

AVS™ (AUTO-VOLTAGE SELECTABLE)
- The IPC3401 series is auto-voltage selectable for operation at 85-264V~ input/output

BAUD RATE
- Default: 9600 baud

EMI/RFI FILTERING
- Common Mode - Line to Ground
- Differential Mode - Line to Line
- Filtered inlet isolates noise before entering the system
- Refer to Chart 3 on page 40

SPIKE/SURGE SUPPRESSION (TVSS)
- Line to Line
- Refer to Chart 1 on page 40
- Multi-stage, both MOVs and SAPs

BRANCH CIRCUIT PROTECTION
- UL498 Listed Main Disconnect Breaker and guard, with a long time delay curve provides manual on/off switching and trips in an overload condition.

POWER INPUT
- IEC60320 Type C20 EMI/RFI Filtered Inlet with cable retaining clip.
- Mating power cables are ordered separately, on page 36

OUTLET STATUS
- Query the IPC for Outlet and Watch Dog status, i.e. outlets are "on" or "off"

STRAPPING
- Strapping allows up to 10 IPCs (80 outlets) to be controlled at one address.
- Units are connected together via the RS485 "IN" and "OUT" connectors

UNIT NAME / PASSWORD
- The IPC comes with a default name but you can also create your own with any four alphanumeric characters
- Optional 3 character password

MULTIPLE TIME DELAY™ (MTD™)
- Sequence power up and power down to outlets with a four second time delay (factory set)
- User Programmable:
  - Set power "on" sequence to any combination of outlets
  - Set the MTD™ timing from 1 second to 999 seconds, i.e. 009 = 9 seconds

AUTO-EVENT COMMAND RESPONSE
- The IPC will automatically update the status of outlets ("on" or "off")

SOFTWARE CONTROLS
- Multi-platform compatible
- Control via Terminal Emulation Software
- Simple command structure allows for easy programming of script or batch programs

COMMANDS AVAILABLE
- All outlets on/off
- Specific outlets on/off
- Set up and Sequence on/off all outlets
- Create password and unit address
- Set up, enable or disable Watchdog
- Display outlet and Watchdog Timer status
- Automatically receive update outlet status whenever there's a change
- Auto-reboot outlet 1 with a five second delay on restart

Please refer to page 36 for power cable assemblies to match your country specific requirements.

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INTELLIGENT POWER CONTROL™
IPC3100F SERIES: 120V~,15A, 1Ø, 50/60Hz



SPECIFICATIONS	IPC3100F
Approvals	UL/cUL, FCC
Voltage Input/Output (50/60Hz)	120V-
Current Input	15A
Current Output De-rated	12A
Full Load V/A De-rated	1440VA
NEMA Outlets (rear panel)	5-15R
Circuit Breaker	15A reset
EMI/RFI Filter	20A
Surge Suppression	270V
Power Cord/Length (rear panel)	14/3, 9'
NEMA Power Input Plug	5-15P
Serial Control (RS232)	YES

U.S. Standard for Safety of Information Technology Equipment, Including Electrical Business Equipment, UL 1950 2nd Edition dated February 26, 1993 and Canadian Standard for the Safety of Information Technology Equipment, Including Electrical Business Equipment CAN/CSA-C22.2 No. 234-M89. FCC, Article 15, Class A.

TABLE TOP
- Height 2.5" x Depth 9.0" x Width 5.75". Approximate shipping weight is 6 lbs.

NEMA
- IPC3100F has 4 NEMA outlets

(4) INDICATOR LIGHTS
- Power "on" to outlets

BAUD RATE
- Default: 2400 baud only.
- Data terminal emulation software is required to communicate with the IPC internal command codes such as Telex, ProComm and many others.

MODEM ACCESS
- External Modem must be put in auto-answer mode prior to making contact with the IPC.

EMI/RFI FILTERING
- Common Mode - Line to Ground
- Differential Mode - Line to Line
- Reference Chart 2 on page 40

SPIKE/SURGE SUPPRESSION
- L-N, L-G, N-G
- Reference Chart 1 on page 40

OVERLOAD CIRCUIT PROTECTION
- Thermal reset breaker

POWER INPUT
- Power cable with plug is attached to unit through the rear panel cable grip.

OUTLET STATUS
- Query the IPC for Outlet and Watchdog status, i.e. outlets are "on" or "off".

DAISY CHAIN
- Connect up to 6 units over a total of 50 feet for a maximum total of 48 outlets.
- The "Y" adapter cable for the DB-25 pin RS-232 port is PEI p/n: sub-pwrcord-281.

MULTIPLE TIME DELAY™ (MTD™)
- Turn outlets "on" or "off" at one time.
- Sequence power up and power down to outlets 1 - 4 with a four second time delay (factory set).
- Set power "on" sequence to any combination of outlets.
- Set the MTD™ timing from 1 second to 999 seconds, i.e. 009 = 9 seconds.

ADDRESSING
- The IPC comes with a default address but you can also create your own with any three alphanumeric characters.
- When connecting more than one unit together, each must have its own address.

PASSWORD PROTECTION
- For added security, a password feature is included which allows the user to assign a three alphanumeric character password.
- When connecting more than one unit together, each must have its own password.

WATCH-DOG/AUTO-REBOOT
- The IPC will monitor the control connection and automatically reboot itself if the connection locks up. The auto-reboot is activated by the time-out period running down to zero. When this occurs the IPC will shut down all outlets for four seconds and restart in the default or user defined sequence.
- Set the Time Out Period to any number 0-9 where each digit represents 30 seconds, i.e. 3 = 120 seconds (user defined).

COMMANDS AVAILABLE
- All outlets on/off
- Specific outlets on/off
- Set up and Sequence on/off all outlets
- Create password and unit address
- Set up, enable or disable Watchdog
- Display outlet and Watchdog Timer status

FOR USING THE IPC ON A NETWORK, AN RS-232 TO ETHERNET CONVERTER IS REQUIRED.

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Single Phase Systems–NORTH AMERICAN
T8–A SERIES: 120V~,15A, 1Ø, 50/60Hz



RACK MOUNTED
- 19" x 1.75" (1U) x 4.5"
- Approximate shipping weight: 7 lbs.

(8) NEMA OUTLETS
- Rear panel

EMI/RFI FILTERING
- Common Mode: Line to Ground
- Differential Mode: Line to Line
- Refer to Chart 2 on page 40

SPIKE/SURGE SUPPRESSION
- L-N, L-G, N-G
- Refer to Chart 1 on page 40

OVERLOAD CIRCUIT PROTECTION
- 15A Electromagnetic high inrush long time delay curve breaker - add "CB" to p/n or for a 15A thermal re-set breakers add "RCB" to p/n.

POWER INPUT
- Power cable with plug is attached to unit through the rear panel cable grip.

INDICATOR LIGHT
- Models A-S and A-RCB utilize a lighted on/off rocker switch, which illuminates when it is put in the "on" position.
- Model A-CB utilizes a rectangular indicator light that illuminates when the breaker is put in the "on" position.

SPECIFICATIONS	T8-A-S	T8-A-RCB	T8-A-CB
Approvals	N/A	N/A	N/A
Voltage Input/Output (50/60Hz)	120V~	120V~	120V~
Current Input	15A	15A	15A
Current Output De-Rated	12A	12A	12A
Full-Load V/A De-Rated	1440VA	1440VA	1440VA
NEMA Outlets (8) on rear panel	5-15R	5-15R	5-15R
Circuit Breaker	N/A	15A re-set	15A
EMI/RFI Filter	N/A	YES	YES
Multi-Stage Surge Suppression	150V	150V	150V
Power Input Cord/Length/Plug	14/3, 9', 5-15P	14/3, 9', 5-15P	14/3, 9', 5-15P

T8S Series: 120V~ OR 240V~, 15A and 20A, 1Ø, 50/60Hz



RACK MOUNTED
- 19" x 1.75" (1U) x 7"
- Approximate shipping weight: 7 lbs.

SPIKE/SURGE SUPPRESSION
- L-N, L-G, N-G
- Refer to Chart 1 on page 40

EMI/RFI FILTERING
- Common Mode: Line to Ground
- Differential Mode: Line to Line
- Refer to Chart 2 on page 40

OVERLOAD CIRCUIT PROTECTION
- Precision electromagnetic breaker provides manual on/off switching and trips in an overload condition.
- Main Power "ON" Indicator light

(8) ON/OFF LIGHTED ROCKER SWITCHES
- (1) Each for the (8) switched outlets

POWER INLET
- IEC320 (C20) 120V~/20A to 250V~/16A Maximum input
- Mating power cables are ordered separately. Reference Pages 36-37

(8) NEMA OUTLETS
- 120v systems: 5-15R (120V/15A)
- 240v system: 6-15R (240V/15A)

SPECIFICATIONS	T8S-A	T8S-A-CB	T8S-A-CB-SF	T8S-B-CB-SF
Approvals	N/A	N/A	N/A	N/A
Voltage input/output (50/60Hz)	120~	120V~	120V~	240V~
Maximum current input	20A	15A	15A	15A
Current output (De-rated)	16A	12A	12A	12A
Full load V/A (De-rated)	1920VA	1440VA	1440VA	2880VA
Circuit Breaker with kick guard	N/A	15A	15A	15/15A
EMI/RFI filter	N/A	N/A	20A	20A
Multi-Stage Surge Suppression	N/A	N/A	YES	YES
NEMA Outlets (8)	5-15R	5-15R	5-15R	6-15R
Power Inlet (IEC60320)	Type C20	Type C20	Type C20	Type C20

Please refer to page 36 for power cable assemblies to match your country specific requirements.

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Single Phase Systems–NORTH AMERICAN
TPC12 Series: 120V~ OR 240V~, 15A, 20A and 30A, 1Ø, 50/60Hz



U.S. Standard for Information Technology Equipment, Including Electrical Business Equipment, UL 1950 2nd Edition, including Supplement C and Canadian Standard for the Safety of Information Technology Equipment, Including Electrical Business Equipment, CAN/CSA-C22.2 No. 950-93.

RACK MOUNTED
- 19" x 1.75" x 4.5"
- Approximate shipping weight: 7 lbs.

(12) NEMA OUTLETS
- 4 on front and 8 on rear panel.

POWER INPUT
- Power cable with plug is attached through the rear panel cable grip.

EMI/RFI FILTERING
- Common Mode - line to ground
- Differential Mode - line to line
- Add "F" to model, i.e. TPC12F-A
- Refer to Chart 2 on page 40

SPIKE/SURGE SUPPRESSION
- L-N, L-G, N-G
- Refer to Chart 1 on page 40

INDICATOR LIGHT
- -A, -A-RCB, -B: lighted on/off switch.
- -A, -CB, -A2, -C, -D: indicator light that illuminates when the breaker is "on".

OVERLOAD CIRCUIT PROTECTION
- Electromagnetic breaker: on/off switch and trips in an overload condition
- 120V/30A units: six outlets per pole
  - The hot line is separated into two

SPECIFICATIONS	TPC12-A	TPC12-A-RCB	TPC12-A-CB	TPC12-A2	TPC12-B	TPC12-C	TPC12-D
Approvals	UL/cUL	UL/ cUL	UL/cUL	UL/cUL	N/A	UL/cUL	UL
Voltage Input/Output (50/60Hz)	120V~	120V~	120V~	120V~	240V~	120V~	120V~
Current Input	15A	15A	15A	20A	15A	30A	30A
Current Output De-Rated	12A	12A	12A	16A	12A	24A	24A
Full-Load V/A De-Rated	1440VA	1440VA	1440VA	1920VA	2880VA	2880VA	2880VA
NEMA Outlets 4 on front / 8 on rear	5-15R	5-15R	5-15R	5-20R	6-15R	5-15R	5-20R
Circuit Breaker	N/A	15A reset	15A	20A	N/A	15/15A	15/15A
Optional Filter (add "F" to part number)	20A	20A	20A	20A	20A	Dual 20A	Dual 20A
Multi-Stage Surge Suppression	150V	150V	150V	150V	No	150V	150V
Power Input Cord/Length (rear panel)	14/3, 9'	14/3, 9'	14/3, 9'	12/3, 9'	14/3, 9'	10/3, 15'	10/3, 15'
NEMA Power Input Plug	5-15P	5-15P	5-15P	5-20P	N/A	L5-30P	L5-30P

TPC981 Series: 120V~ OR 240V~, 15A, 20A and 30A, 1Ø, 50/60Hz



U.S. and Canadian (Bi-National) Standard for Safety of Information Technology Equipment, Including Electrical Business Equipment, CAN/CSA 22.2 No. 950-95, UL 1950 3rd Edition, including revisions through revision date March 1, 1998, which are based on the 4th Amendment to IEC 950 2nd Edition (15A and 20A input systems). 30A input systems are to UL 1950 2nd Edition dated February 26, 1993 and CAN/CSA C22.2 No. 950-93.

RACK MOUNTED
- 19" x 1.75" (1U) x 7.0"
- Approximate shipping weight: 8 lbs.

EMI/RFI FILTERING
- Common Mode Line to Ground
- Differential Mode Line to Line
- Refer to Chart 4 (15A/20A units) Chart 5 (30A units) on page 40

POWER INPUT
- Power cable with plug is attached to unit through the rear panel cable grip.

INDICATOR LIGHT
- Indicator illuminates when CB is "on"

SPIKE/SURGE SUPPRESSION
- L-N, L-G, N-G
- Refer to Chart 1 on page 40

OVERLOAD CIRCUIT PROTECTION
- Electromagnetic breaker: on/off switch and trips in an overload condition
- 120V/30A units: six outlets per pole
- The hot line is separated into two
- 240V/30A units: six outlets per breaker

(12) NEMA OUTLETS
- 2 on front and 10 on rear panel

SPECIFICATIONS	TPC981-A	TPC981-A2	TPC981-B	TPC981-C	TPC981-D	TPC981-F
Approvals	UL/cUL	UL/cUL	UL/cUL	UL/cUL	UL/cUL	UL/cUL
Voltage Input/output 50/60Hz	120V~	120V~	240V~	120V~	120V~	240V~
Current Input	15A	20A	15A	30A	30A	30A
Current Output De-rated	12A	16A	12A	24A	24A	24A
Full Load V/A De-rated	1440VA	1920VA	2880VA	2880VA	2880VA	5760VA
NEMA Outlets	5-15R	5-20R	6-15R	5-15R	5-20R	6-15R
Circuit Breaker	15A	20A	15/15A	15/15A	15/15A	(2) 15/15A
EMI/RFI Filter	20A	20A	20A	30A	30A	30A
Multi-Stage Surge Suppression	270V/150V	270V/150V	320V/270V	270V/150V	270V/150V	320V/270V
Cord/Length	14/3, 9'	12/3, 9'	14/3, 9'	10/3, 15'	10/3, 15'	10/3, 15'
NEMA Power Input Plug	5-15P	5-20P	N/A	L5-30P	L5-30P	L6-30P

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TPC981 Listed Series: 120V~ OR 240V~, 15A, 20A and 30A, 1Ø, 50/60 Hz
T982: 120V~, 30A, 1Ø, 50/60 Hz *WITH FULL LOAD CURRENT METER*





c UL us

UL Listed and has been tested and approved to U.S. and Canadian (Bi-National) Standard for Safety of Information Technology Equipment, including Electrical Business Equipment, CAN/CSA C22.2 No. 950-95 * UL 1950, Third Edition, including revisions through revision date March 1, 1998, which are based on the Fourth Amendment to IEC 950, Second Edition.

RACK MOUNTED
- 19" x 1.75" (1U) x 7.0"
- Approximate shipping weight is 8 lbs
- Optional Zero-U mounting brackets are available

8-12 NEMA OUTLETS
- Up to 10 on rear panel, 2 on front

POWER INPUT
- 12 FT. cable (type SJOOW) is attached to unit through the rear panel cable grip(s)

INDICATOR LIGHTS
- Up to two neon indicator lights illuminate when the circuit breaker(s) are "on"

BRANCH CIRCUIT PROTECTION
- UL498 Listed Main Disconnect Breaker and guard, with a long time delay curve provides manual on/off switching and trips in an overload condition.

SPECIFICATIONS:	TPC981-2615P	TPC981-2617P	TPC981-2626P	TPC981-2744P	T982C1-F-LL-109
Approvals:	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	N/A
Voltage Input/Output (50/60Hz):	240V~	DUAL 240V~	240V~	DUAL 120V~	120V~
Current Input:	20A	DUAL 20A	30A	DUAL 15A	30A
Current Output De-rated:	16A	DUAL 16A	24A	DUAL 12A	24A
Full Load V/A De-rated:	3840VA	DUAL 3840VA	5760VA	DUAL 1440VA	2880VA
NEMA Outlets:	L6-15R (10R/2F)	L6-15R (8R/0F)	L6-15R (10R/2F)	5-15R (8R/2F)	5-15R (10R/2F)
Listed Breaker with Guard:	(1) 20/20A	(2) 20/20A	(2) 15/15A	(2) 15A	(2) 15A
Power Cord/Length/Plug:	12/3, 12', L6-20P	(2) 12/3, 12', L6-20P	10/3, 12', L6-30P	(2) 14/3, 12', L5-15P	10/3, 9', L5-30P
CURRENT METER:	N/A	N/A	N/A	N/A	YES



TPC981-2615P: 240V/20A power input via an attached 12', 12/3awg SJOOW cable that is terminated with a NEMA L6-20P. There's (1) listed branch circuit protection breaker and light on the front panel to control (12) NEMA L6-15R outlets.



TPC981-2617P: DUAL 240V/20A power input via (2) attached 12', 12/3awg SJOOW cables that are terminated with a NEMA L6-20P. There are (2) listed branch circuit protection breakers and lights on the front panel; each controls (4) rear panel NEMA L6-15R outlets.



TPC981-2626P: 240V/30A power input via an attached 12', 10/3awg SJOOW cable that is terminated with a NEMA L6-30P. There are (2) listed branch circuit protection breakers and lights on the front panel; each controls (6) NEMA L6-15R outlets.



TPC981-2744P: DUAL 120V/15A power input via (2) attached 12', 14/3awg SJOOW cables that are terminated with a NEMA L5-15P. There are (2) listed branch circuit protection breakers and lights on the front panel; 4each controls (4) rear panel NEMA 5-15R outlets.



T982C1-F-LL-109 with CURRENT METER: 120V/30A power input via an attached 9', 10/3awg SJOOW cable that is terminated with a NEMA L5-30P. There are (2) listed branch circuit protection breakers and lights on the front panel; each controls (6) NEMA 5-15R outlets. EMI/RFI filtering and surge suppression L-L are included.

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Single Phase Systems–NORTH AMERICAN
TPC115-10/MTD Series: 120V~ OR 240V~, 15A, 20A and 30A, 1Ø, 50/60Hz





US and Canadian (Bi-National) Standard for Safety of Information Technology Equipment, Including Electrical Business Equipment, CAN/CSA 22.2 No. 950-95, UL 1950 3rd Edition, including revisions through revision date March 1, 1998, which are based on the 4th Amendment to IEC 950 2nd Edition (15A and 20A input systems). 30A input systems are to UL 1950 2nd Edition dated February 26, 1993 and CAN/CSA C22.2 No. 950-93.

RACK MOUNTED
- 19" x 1.75" (1U) x 8.0"
- Approximate shipping weight: 14 lbs.

(10) NEMA OUTLETS
- 2 un-switched on front and 8 switched on rear panel. Un-switched outlets are tied to the SW-II outlet section.

POWER INPUT
- Power cable with plug is attached to unit through the rear panel cable grip.

(3) INDICATOR LIGHTS
- Main breaker power "on" and power to the un-switched outlets
- Power "on" to the SW-I outlets
- Power "on" to the SW-II outlets

SPIKE/SURGE SUPPRESSION
- L-N, L-G, N-G
- Refer to Chart 1 on page 40

EMI/RFI FILTERING
- Common Mode Line to Ground
- Differential Mode Line to Line
- Refer to Chart 4 (15A/20A units) and Chart 5 (30A units) on page 40

OVERLOAD CIRCUIT PROTECTION
- Precision electromagnetic breaker provides manual on/off switching and trips in an overload condition.

LOCAL/OFF/REMOTE SWITCHING
- Local: Power "on or off" to the switched outlets.
- Off: When breaker is "on" but this switch is in the "off" mode, you will have power to the un-switched outlets only
- Remote: Power "on or off" to the switched outlets via a remote device
- Latching remote, on "LT" systems, has the selection switch wired for Remote/Off/Remote - There is no local control.

MULTIPLE TIME DELAY™ (MTD™)
- Activated "locally" or "remotely", SW-I outlets power up immediately, followed four seconds later by SW-II outlets which is followed four seconds later by the sequenced remote I/O port.
- Add "/MTD" after part number, i.e. TPC115-10-A/MTD.

(5 N/O) REMOTE I/O PORTS
- 3 front/2 rear
- Remote on/off and EPO control, EPO overrides remote and local control
- Sequence Power Up additional equipment down line (all models)
- **Latching remote feature - (N/C) EPO, momentary start**
  - Add "-LT" after the alpha call-out when the MTD feature is not being used
  - Add "/LT" after the alpha call-out when the MTD feature is used

SPECIFICATIONS	TPC115-10-A	TPC115-10-A2	TPC115-10-B	TPC115-10-C	TPC115-10-D	TPC115-10-F
Approvals	UL/cUL	UL/cUL	UL/cUL	UL/cUL	UL/cUL	UL/cUL
Voltage Input/Output (50/60Hz)	120V~	120V~	240V~	120V~	120V~	240V~
Current Input	15A	20A	15A	30A	30A	30A
Current Output De-rated	12A	16A	12A	24A	24A	24A
Full Load V/A De-rated	1440VA	1920VA	2880VA	2880VA	2880VA	5760VA
NEMA Outlets	5-15R	5-20R	6-15R	5-15R	5-20R	6-15R
Circuit Breaker with Kick Guard	15A	20A	15/15A	15/15A	15/15A	(2) 15/15A
EMI/RFI Filter	20A	20A	20A	30A	30A	30A
Multi-Stage Surge Suppression	270V/150V	270V/150V	320V/270V	270V/150V	270V/150V	320V/270V
Power Cord/Length	14/3, 9'	12/3, 9'	14/3, 9'	10/3, 15'	10/3, 15'	10/3, 15'
NEMA Power Input Plug	5-15P	5-20P	N/A	L5-30P	L5-30P	L6-30P

This system is designed to be controlled Locally or Remotely via a remote control panel (refer to pages 34-35).

Remote Control Panels To Be Used With All Pulizzi® Remote Controlled Units



RCP100-GRY



RCP200-GRY

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Single Phase Systems–NORTH AMERICA
PC110 Series: 120V~ OR 240V~, 15A, 20A and 30A, 1Ø, 50/60Hz



US Standard for Safety of Information Technology Equipment, Including Electrical Business Equipment, UL 1950 2nd Edition dated February 26, 1993.

RACK MOUNTED
- 19" x 3.5" (2U) x 8.5".
- Approximate shipping weight: 19 lbs.

EMI/RFI FILTERING
- Common Mode Line to Ground
- Differential Mode Line to Line
- Reference Chart 4 (15A/20A units) and Chart 6 (30A units) on page 40

SPIKE/SURGE SUPPRESSION
- L-N, L-G, N-G
- Reference Chart 1 on page 40

POWER INPUT
- Power cable with plug is attached to unit through the rear panel cable grip.

(12) NEMA OUTLETS
- 12 switched.

(1) INDICATOR LIGHT
- Main breaker power "on" to all outlets

OVERLOAD CIRCUIT PROTECTION
- Precision electromagnetic breaker provides manual on/off switching and trips in an overload condition.

SPECIFICATIONS	PC110-A	PC110-A2	PC110-B	PC110-C	PC110-D	PC110-F
Approvals	UL	UL	UL	UL	UL	UL
Voltage Input/Output 50/60Hz	120V~	120V~	240V~	120V~	120V~	240V~
Current Input	15A	20A	15A	30A	30A	30A
Current Output De-rated	12A	16A	12A	24A	24A	24A
Full Load V/A De-rated	1440VA	1920VA	2880VA	2880VA	2880VA	5760VA
NEMA Outlets	5-15R	5-20R	6-15R	5-15R	5-20R	6-15R
Circuit Breaker	15A	20A	15/15A	15/15/30A	20/20/30A	15/15/30A
EMI/RFI Filter	20A	20A	20A	30A	30A	30A
Multi-Stage Surge Suppression	270V/150V	270V/150V	320V/270V	270V/150V	270V/150V	320V/270V
Power Cord/Length	14/3, 9'	12/3, 9'	14/3, 9'	10/3, 15'	10/3, 15'	10/3, 15'
NEMA Power Input Plug	5-15P	5-20P	N/A	L5-30P	L5-30P	L6-30P

Pulizzi® is ISO 9001 Registered and their systems typically include one or more of the following agency approvals:

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Single Phase Systems–NORTH AMERICAN
PC125 Series: 120V~ OR 240V~, 15A, 20A and 30A, 1Ø, 50/60Hz



US Standard for Safety of Information Technology Equipment, Including Electrical Business Equipment, UL 1950 2nd Edition dated February 26, 1993 and CAN/CSA-C22.2 No. 950-M89.

RACK MOUNTED
- 19" x 3.5" (2U) x 8.5".
- Approximate shipping weight: 19 lbs.

(12) NEMA OUTLETS
- 4 un-switched and 8 switched.

(4) INDICATOR LIGHTS
- (1) Main breaker power "ON".
- (1) Power to un-switched outlets.
- (2) Power to switched outlets.

POWER INPUT
- Power cable with plug is attached to unit through the rear panel cable grip.

EMI/RFI FILTERING
- Common Mode Line to Ground
- Differential Mode Line to Line
- Refer to Chart 4 (15A/20A units) and Chart 6 (30A units) on page 40

SPIKE/SURGE SUPPRESSION
- L-N, L-G, N-G
- Refer to Chart 1 on page 40

LOCAL/OFF/REMOTE SWITCHING
- Local: Power "on or off" to the switched outlets.
- Off: When breaker is "on" but this switch is in the "off" mode, you will have power to the un-switched outlets only
- Remote: Power "on or off" to the switched outlets via a remote device
- When using a Latching remote, the selection switch is wired for Remote/Off/Remote - There is no local control

OVERLOAD CIRCUIT PROTECTION
- Precision electromagnetic breaker provides manual on/off switching and trips in an overload condition

(3 N/O) REMOTE I/O PORTS
- Remote on/off and EPO control, EPO overrides remote and local control
- Sequence Power Up additional equipment down line
- **"LT" units only: Latching remote - (N/C) EPO, momentary start**

PC125-A-LT
PC125-A2-LT
PC125-B-LT
PC125-C-LT
PC125-D-LT
PC125-F-LT

SPECIFICATIONS	PC125-A	PC125-A2	PC125-B	PC125-C	PC125-D	PC125-F
Approvals	UL/CSA	UL/CSA	UL/CSA	UL/CSA	UL/CSA	UL/CSA
Voltage Input/Output 50/60Hz	120V~	120V~	240V~	120V~	120V~	240V~
Current Input	15A	20A	15A	30A	30A	30A
Current Output De-rated	12A	16A	12A	24A	24A	24A
Full Load V/A De-rated	1440VA	1920VA	2880VA	2880VA	2880VA	5760VA
NEMA Outlets	5-15R	5-20R	6-15R	5-15R	5-20R	6-15R
Circuit Breaker	15A	20A	15/15A	15/15/30A	20/20/30A	15/15/30A
EMI/RFI Filter	20A	20A	20A	30A	30A	30A
Multi-Stage Surge Suppression	270V/150V	270V/150V	320V/270V	270V/150V	270V/150V	320V/270V
Cord/Length/Plug	14/3, 9'	12/3, 9'	14/3, 9'	10/3, 15'	10/3, 15'	10/3, 15'
NEMA Power Input Plug	5-15P	5-20P	N/A	L5-30P	L5-30P	L6-30P

This system is designed to be controlled Locally or Remotely via a remote control panel (refer to pages 34-35).

Remote Control Panels To Be Used With All Pulizzi® Remote Controlled Units



RCP100-GRY



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Single Phase Systems–NORTH AMERICAN
PC420 Series: 120V~ OR 240V~, 15A, 20A and 30A, 1Ø, 50/60Hz



U.S. Standard for Safety of Information Technology Equipment, Including Electrical Business Equipment, UL 1950 2nd Edition dated February 26, 1993 and CAN/CSA-C22.2 No. 234-M90.

RACK MOUNTED
- 19" x 3.5" (2U) x 8.5".
- Approximate shipping weight: 19 lbs.

(12) NEMA OUTLETS
- 4 un-switched and 8 switched, 4 in SW-I & 4 in SW-II

(4) INDICATOR LIGHTS
- (1) Main breaker power "ON".
- (1) Power to un-switched outlets.
- (2) Power to switched outlets, section 1 and 2

POWER INPUT
- Power cable with plug is attached to unit through the rear panel cable grip.

EMI/RFI FILTERING
- Common Mode Line to Ground
- Differential Mode Line to Line
- Refer to Chart 4 (15A/20A units) and Chart 6 (30A units) on page 40

SPIKE/SURGE SUPPRESSION
- L-N, L-G, N-G
- Refer to Chart 1 on page 40

LOCAL/OFF/REMOTE SWITCHING
- Local: Power "on or off" to the switched outlets.
- Off: When breaker is "on" but this switch is in the "off" mode, you will have power to the un-switched outlets only
- Remote: Power "on or off" to the switched outlets via a remote device
- When using a Latching remote, the selection switch is wired for Remote/Off/Remote - There is no local control

OVERLOAD CIRCUIT PROTECTION
- Precision electromagnetic breaker provides manual on/off switching and trips in an overload condition.

MULTIPLE TIME DELAY™ (MTD™)
- Activated "Locally" or "Remotely", SW-I powers up, followed 4-seconds later by SW-II then 4-seconds later the sequenced remote activates the next system in line.

(3 N/O) REMOTE I/O PORTS
- Remote on/off and EPO control, EPO overrides remote and local control
- Sequence Power Up additional equipment down line

- **"LT" units only: Latching remote - (N/C) EPO, momentary start**

PC420-A/LT
PC420-C/LT
PC420-D/LT

SPECIFICATIONS	PC420-A	PC420-A2	PC420-B	PC420-C	PC420-D	PC420-F
Approvals	UL/cUL	UL/cUL	UL/cUL	UL/cUL	UL/cUL	UL/cUL
Voltage Input/Output 50/60Hz	120V~	120V~	240V~	120V~	120V~	240V~
Current Input	15A	20A	15A	30A	30A	30A
Current Output De-rated	12A	16A	12A	24A	24A	24A
Full Load V/A De-rated	1440VA	1920VA	2880VA	2880VA	2880VA	5760VA
NEMA Outlets	5-15R	5-20R	6-15R	5-15R	5-20R	6-15R
Circuit Breaker	15A	20A	15/15A	15/15/30A	20/20/30A	15/15/30A
EMI/RFI Filter	20A	20A	20A	30A	30A	30A
Multi-Stage Surge Suppression	270V/150V	270V/150V	320V/270V	270V/150V	270V/150V	320V/270V
Cord/Length/Plug	14/3, 9'	12/3, 9'	14/3, 9'	10/3, 15'	10/3, 15'	10/3, 15'
NEMA Power Input Plug	5-15P	5-20P	N/A	L5-30P	L5-30P	L6-30P

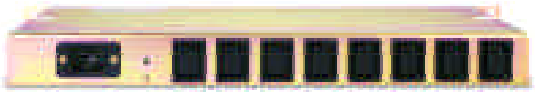
You're assured of quality because the Pulizzi® family name is on every product.

This system is designed to be controlled Locally or Remotely via a remote control panel (refer to pages 34-35).

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Single Phase Systems–INTERNATIONAL
T9092 Series: 110V~125/200V~240V~, 20A, 1Ø, 50/60Hz





c UL us LISTED

The T9092 series is UL Listed and has been tested and approved to U.S. and Canadian (Bi-National) Standard for Safety of Information Technology Equipment, CSA C22.2 No. 60950 * UL60950, Third Edition, dated December 1, 2000. The T9092 is also TUV approved per IEC60950: 1992+A1+A2+A3+A4, 2nd Edition.

RACK MOUNTED
- 19" x 1.75" (1U) x 5.0"
- Approximate shipping weight: 8 lbs.

(1) INDICATOR LIGHT
- On front panel: power "on" to system

EMI/RFI FILTERING
- Common Mode - line to ground
- Differential Mode - line to line
- Refer to Chart 7 on page 40

(12) IEC60320 (C13 FEMALE) OUTLETS
- 4 on the front and 8 on the rear panel.
- Rated by UL/CSA up to 250V~/15A
- Rated by VDE at 250V/10A each

IEC60320 (C20 MALE) POWER INLET
- On the rear panel.
- Rated by UL/CSA at 125V~/20A or 250V~/16A, by VDE at 250V~/16A

SPIKE/SURGE SUPPRESSION
- Line to Line
- Refer to Chart 1 on page 40

OVERLOAD CIRCUIT PROTECTION
- Precision electromagnetic breaker provides manual on/off switching and trips in an overload condition. Models with "CB" in part number only.

Power Cable: Order Separately see page 36.

SPECIFICATIONS	T9092B	T9092B-CB
Approvals	UL/cUL Listed, TUV, CE	UL/cUL Listed, TUV, CE
Voltage Input/Output (50/60Hz)	110-125/200-240V~	110-125/200-240V~
Current Input	20A	20A
Current Output De-rated	16A	16A
Full Load V/A De-rated	3840VA @ 240V	3840VA @ 240V
IEC60320 Outlets (4F/8R)	Type C13	Type C13
Circuit Breaker with Kick Guard	N/A	20/20A
EMI/RFI Filter	N/A	N/A
Multi-Stage Surge Suppression	N/A	N/A
Power Inlet (IEC60320)	Type C20	Type C20

T9092B-CB-2618P SERIES: 240V~, 20A, 1Ø, 50/60Hz





c UL us LISTED

UL Listed and has been tested and approved to U.S. and Canadian (Bi-National) Standard for Safety of Information Technology Equipment, including Electrical Business Equipment, CAN/CSA C22.2 No. 950-95 * UL 1950, Third Edition, including revisions through revision date March 1, 1998, which are based on the Fourth Amendment to IEC 950, Second Edition.

RACK MOUNTED
- 19" x 1.75" (1U) x 7.0"
- Approximate shipping weight is 9 lbs.

IEC60320 TYPE C13 OUTLETS
- (15) 6 on front and 9 on rear panel.

POWER INPUT
- (1) IEC60320 Type C20 Inlet

INDICATOR LIGHT
- (1) Neon light illuminates when the circuit breaker is in the "on" position.

BRANCH CIRCUIT PROTECTION
- UL489 Listed electromagnetic breaker provides manual on/off switching and trips in an overload condition

SPECIFICATIONS	T9092B-CB-2618P
Voltage Input/Output (50/60Hz)	240V~
Approvals	UL/cUL Listed
Current Input	20A
Current Output De-rated	16A
Full Load V/A De-rated	3840VA
IEC60320 Outlets (6F/9R)	Type C13
Listed Circuit Breaker with Guard	2pole/20A
Power Inlet (IEC60320)	Type C20

Please refer to page 36 for power cable assemblies to match your country specific requirements.

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Single Phase Systems–INTERNATIONAL
TPC2104 Series: 100–240V~, 20A, 1Ø, 50/60Hz





The TPC2104 is UL Listed and has been tested and approved to U.S. and Canadian (Bi-National) Standard for Safety of Information Technology Equipment, CSA C22.2 No. 60950 * UL60950, 3rd Edition, dated December 1, 2000. The TPC 2104 is also TUV approved per IEC 60950:1991+A1+A2+A3+A4 2nd Edition.

RACK MOUNTED
- 19" x 1.75" (1U) x 7.0"
- Approximate shipping weight: 7 lbs.

(1) INDICATOR LIGHT 12VDC
- On front panel: power "on" to system

EMI/RFI FILTERING
- Common Mode - line to ground
- Differential Mode - line to line
- Refer to Chart 2 on page 40

SPIKE/SURGE SUPPRESSION
- Line to Line
- Refer to Chart 1 on page 40

(16) IEC60320 (C13) OUTLETS
- 4 on the front and 12 on the rear panel. Each group of (4) outlets is rated by UL/CSA up to 250V~/15A and by VDE at 250V/10A

OVERLOAD CIRCUIT PROTECTION
- Precision electromagnetic breaker provides manual on/off switching and trips in an overload condition

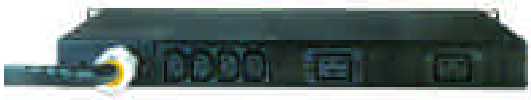
IEC60320 POWER INLET
- The C20 inlet is located on the rear panel and rated by UL/CSA at 125V~/20A or 250V~/16A, and by VDE at 250V~/16A

Please refer to page 36 for power cable assemblies to match your country specific requirements.

TPC2105 SERIES: 85–264V~, 30A, 1Ø, 50/60Hz



TPC2105-1



TPC2105-2

RACK MOUNTED
- 19" x 1.75" (1U) x 7.0"
- Approximate shipping weight: 8 lbs.
- EG Steel, Powdercoat Black

(2) INDICATOR LIGHTS
- On front panel: One each for CB1 and CB2 power "on"

DUAL 20A EMI/RFI FILTERS
- Common Mode - line to ground
- Differential Mode - line to line
- Refer to Chart 2 on page 40

SPIKE/SURGE SUPPRESSION
- Line to Line
- Refer to Chart 1 on page 40

IEC60320 OUTLETS
- **TPC2105-1:** (4) C13 outlets on the front and (12) on the rear panel.
- **TPC2105-2:** 4) C13 outlets on the front and (2) C19 and (4) C13 outlets on the rear panel
- Each group of (4) C13 outlets is rated by UL/CSA up to 250V~/15A and by VDE at 250V/10A
- C19 is rated by UL/CSA up to 250V~/20A and by VDE at 250V/16A

BRANCH CIRCUIT PROTECTION
- UL489 Listed electromagnetic breaker provides manual on/off switching and trips in an overload condition

POWER INPUT
- An external locking connector is provided. Cable assemblies with a mating connector, high voltage cover, strain relief, cable and plug are available. Please reference below part numbers.

SPECIFICATIONS	TPC2104	TPC2105-1	TPC2105-2
Approvals	UL/cUL Listed, TUV, CE	N/A	N/A
Voltage Input/Output (50/60Hz)	100-240V~	85-264V~	85-264V~
Current Input	20A	30A	30A
Current Output De-rated	16A	24A	24A
Full Load V/A De-rated	1920VA @ 120V~ 3840VA @ 240V~	2880VA @120V~ 5760VA @ 240V~	2880VA @120V~ 5760VA @ 240V~
IEC60320 Outlets	Type C13 (4F/12R)	Type C13 (4F/12R)	Type C13 (4F/8R) and Type C19 (1F/1R)
Circuit Breaker with Guard	20/20A	(2) 15/15A	(2) 15/15A
EMI/RFI Filter	20A	(2) 20A	(2) 20A
Surge Suppression	270V	320V	320V
Power Input	IEC60320 Type C20	Locking Connector	Locking Connector

REQUIRED CABLE ASSEMBLY OPTIONS: CBL106: 120V/30A with 10/3 cable 9' long terminated with a NEMA L5-30P
CBL107: 240V/30A with 10/3 cable 9' long terminated with a NEMA L6-30P
CBL108: 240V/30A with 3x4.0mm Harmonized cable 9' long terminated with an IEC60309 32A plug

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Single Phase Systems–INTERNATIONAL
TPC884: 110–125/200–240V~, 20A, 1Ø, 50/60Hz

VOLTAGE SELECTABLE





c UL us LISTED

The TPC884 is UL Listed and has been tested and approved to U.S. and Canadian (Bi-National) Standard for Safety of Information Technology Equipment, CSA C22.2 No. 60950 * UL60950, 3rd Edition, dated December 1, 2000. The TPC884 is TUV approved per EN 60950:1992+A1+A2+A3+A4+A11, UL1950-1995, CAN/CSA-22.2 No. 950-95.

RACK MOUNTED
- 19" x 1.75" (1U) x 7.0"
- Approximate shipping weight is 8 lbs.

VOLTAGE SELECTABLE
- 120V~ or 240V~ input/output

EMI/RFI FILTERING
- Common Mode - line to ground
- Differential Mode - line to line
- Refer to Chart 4 on page 40

SPIKE/SURGE SUPPRESSION
- L-L (240V mode uses 270V MOV)
- L-N (120V mode uses 150V MOV)
- Refer to Chart 1 on page 40

(10) IEC60320 C13 OUTLETS
- 2 on the front and 8 on the rear panel. Mating plug would be a C14 male.
- Rated by UL/CSA up to 250V~/15A
- Rated by VDE at 250V/10A each

IEC320 (C20 MALE) POWER INLET
- On the rear panel, rated by UL/CSA at 125V~/20A or 250V~/16A and by VDE at 250V~/16A

(2) INDICATOR LIGHTS
- On front panel. Each one for voltage selected and power "on" to system.

OVERLOAD CIRCUIT PROTECTION
- Precision electromagnetic breakers, with a long time delay curve, provide both manual on/off switching and open (trip) automatically with an overload condition.
- Kick Guards are provided.

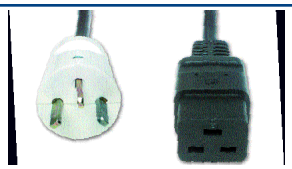
MTBF (MEAN TIME BEFORE FAILURE)
- Per MIL-HDBK-217E ground fixed is 875,000 hours.

SPECIFICATIONS:	TPC884-1	TPC884-BLK
Agency Approvals	UL/cUL Listed, c/TUV/us, CE	UL/cUL Listed, c/TUV/us, CE
Voltage Input/Output (50/60Hz)	110-125 / 200-240V~	110-125 / 200-240V~
Maximum Current Input	20A for UL/CSA or 16A for VDE	20A for UL/CSA or 16A for VDE
Current Output De-rated	16A for UL, CSA and VDE	16A for UL, CSA and VDE
Full Load V/A De-rated	1920VA @ 120V or 3840VA @ 240V	1920VA @ 120V or 3840VA @ 240V
Outlets IEC60320 (2F/8R)	Type C13	Type C13
Circuit Breaker with Kick Guard	20/20A	20/20A
EMI/RFI Filter	20A	20A
Surge Suppression	150V / 270V	150V / 270V
Power Inlet (IEC60320)	Type C20	Type C20
Color	Zinc Plated Gold	Painted Black

Power Cable: Order Separately see page 36.

THE IEC ADVANTAGE:

The IEC60320 and IEC60309 connectors described below are the most commonly specified. The IEC connector system is used throughout the world. By utilizing a Pulizzi® Power Distribution System with the IEC connectors, you can attach the correct cable assembly for British, Australian, Continental European, North American and many other cable/connector configurations. This allows you to purchase and inventory one PDU for shipment anywhere in the world.



On the right is a C19 which mates to the C20. On the left is a Schuko plug standard for Europe. Plugs from around the world are used with the C19 or with the C13 connectors.



IEC60309 pin & sleeve locking plugs and outlets are rated up to 690VAC at 125A and are used domestically and internationally for single-phase and three-phase power requirements. The most common are 16A and 20A single phase for providing power to equipment through the C20 inlet.

Please refer to page 36 for power cable assemblies to match your country specific requirements.

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TPC2365 Series: 110-125V/200-240V~,16A, 1Ø, 50/60Hz (AUTO-VOLTAGE SELECTION - AVS™)

(Replaces TPC2364 Series)





The TPC2365 is TUV approved per EN 60950:1992+A1+A2+A3+A4+A11, UL1950-1995, CAN/CSA-22.2 No. 950-95.

RACK MOUNTED
- 19" x 1U (1.75") x 7"
- Approximate shipping weight: 9 lbs.

EMI/RFI FILTER
- Differential Mode - Line to Line
- Common Mode - Line to Ground
- Refer to Chart 4 on page 40

SPIKE/SURGE SUPPRESSION
- Line to Line
- Refer to Chart 1 on page 40

IEC60320 Power Inlet
- Power inlet is on the rear panel.
- Rated by UL/CSA at 125VAC/20A or 250VAC/16A Rated by TUV at 250VAC/16A

IEC60320 OUTLETS (12)
Three sections of (4) switched outlets on the rear panel. Each group of four outlets are:
- Rated by UL/CSA up to 250VAC/15A
- Rated by VDE at 250VAC/10A

REMOTE SELECTION SWITCH
- Local: Power "on or off" to the switched outlets.
- Off: When breaker is "on" but this switch is in the "off" mode, you will have power to the un-switched outlets only
- Remote: Power "on or off" to the switched outlets via a remote device
- Latching remote on "LT" models only, the selection switch is wired for Remote/Off/Remote - There is no local control.

(3 N/O) REMOTE INTERFACE
- Remote on/off and EPO control - EPO overrides remote and local control
- Sequence Power Up additional equipment down line (standard on all units
- Latching remote "LT" models only - (N/C) EPO, momentary start

MULTIPLE TIME DELAY (MTD™)
- Activated "Locally" or "Remotely", SW-I powers up, followed 4-seconds later by SW-II which is followed 4-seconds latter SW-III then 4-seconds later the sequenced remote activates the next system in line.

INDICATOR LIGHTS (5)
- Power to SW 1, 2 and 3
- 115 VAC or 230VAC input selected

OVERLOAD CIRCUIT PROTECTION
- Electromagnetic breaker provides manual on/off switching and trips in an overload condition.

AUTO-VOLTAGE SELECTION
- The AVS™ system automatically senses the input voltage and adjusts the internal components to use that voltage for the output.

SPECIFICATIONS	TPC2365	TPC2365/MTD	TPC2365-LT	TPC2365/LT
Approvals	cTUVus, CE	cTUVus, CE	cTUVus, CE	cTUVus, CE
Voltage Input/Output, 50/60 Hz	110-125V / 200-240V	110-125V / 200-240V	110-125V / 200-240V	110-125V / 200-240V
Current input	20A	20A	20A	20A
Current output De-rated	16A	16A	16A	16A
Full load V/A De-rated	1920VA / 3840VA	1920VA / 3840VA	1920VA / 3840VA	1920VA / 3840VA
Circuit breaker	2 Pole 20A	2 Pole 20A	2 Pole 20A	2 Pole 20A
Multiple Time Delay	NO	YES	NO	YES
EMI/RFI Filter	YES (20A)	YES (20A)	YES (20A)	YES (20A)
Surge Suppression	320V	320V	320V	320V
Outlets	IEC60320 Type C13	IEC60320 Type C13	IEC60320 Type C13	IEC60320 Type C13
Remote control	Standard	Standard	Latching	Latching
Power Inlet (IEC60320)	Type C20	Type C20	Type C20	Type C20

Power Cable: Order Separately see page 36.

For Technical Support Or To Place An Order, Call: 1-800-870-2248 or e-mail: sales@pulizzi.com

This system is designed to be controlled Locally or Remotely via a remote control panel (refer to pages 34-35).

Please refer to page 36 for power cable assemblies to match your country specific requirements.

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PC5585 Series: Voltage Selectable 120V~ OR 240V~, 20A and 30A, 1Ø, 50/60Hz





U.S. Standard for the Safety of Information Technology Equipment, Including Electrical Business Equipment, UL 1950 2nd Edition dated February 26, 1993 and CAN/CSA-C22.2 No. 950-93. The PC5585 is also TUV certified to EN 60950:1992, A1+A2+A3.

RACK MOUNTED
- 19" x 2U (3.5") x 8.5" (recessed)
- Approximate shipping weight: 18 lbs

IEC60320 OUTLETS (14)
- 12 switched (4 per switched section) on the front panel and 2 unswitched on the rear panel. Each outlet is rated by UL & CSA at 125V~ / 15A or by VDE at 250V~ / 10A

REMOTE SELECTION SWITCH
- **Local:** Power "on/off" to the switched outlets.
- **Off:** When breaker is "on" but this switch is in the "off" mode, you will have power to the un-switched outlets only
- **Remote:** Power "on/off" to the switched outlets via a remote device
- **Latching remote:** PC5585-CF1/LT only - the selection switch is wired for Remote/Off/Remote - There is no local control.

VOLTAGE SELECTION SWITCH
- 120V~ Single Phase 50/60Hz
- 240V~ Single Phase 50/60Hz

EMI/RFI FILTERING
- Common Mode Line to Ground
- Differential Mode Line to Line
- Refer to Chart 4 (20A units) and Chart 6 (30A units) on page 40

SPIKE/SURGE SUPPRESSION
- Line to Line.
- Refer to Chart 1 on page 40

(3 N/O) REMOTE I/O PORTS
- Remote on/off and EPO control, EPO overrides remote and local control
- Sequence Power Up additional equipment down line (standard on all units
- Latching remote - (N/C) EPO, momentary start on PC5585-CF1/LT only

POWER INPUT
- External terminal block for power input is on rear panel.
- High Voltage Cover with attached cable/plug is available, reference below part numbers.

MULTIPLE TIME DELAY (MTD™)
- SW-I powers up, followed 4-seconds later by SW-II followed 4-seconds later SW-III then 4-seconds later the sequenced remote activates the next system in line
- Models with (/MTD) sequence power up and then, in the reverse order, power down
- Models with (1/MTD) sequence power up but not down
- Models without MTD will power up all 12 switched outlets at one time
- Sequenced remote is standard on all systems with or without the MTD feature

(6) INDICATOR LIGHTS
- (1) Main power "on"
- (1) Each, Section 1, 2, 3 power "on"
- 120V~ or 240V~ indicator to show which voltage is selected

OVERLOAD CIRCUIT PROTECTION
- Electromagnetic breaker provides manual on/off switching and trips in an overload condition.

SPECIFICATIONS	PC5585-AB	PC5585-AB1/MTD	PC5585-AB/MTD	PC5585-CF	PC5585-CF1/MTD	PC5585-CF/MTD
Approvals	UL/cUL, TUV, CE	UL/cUL, TUV, CE	UL/cUL, TUV, CE	UL/cUL, TUV, CE	UL/cUL, TUV, CE	UL/cUL, TUV, CE
Voltage I/O, 50/60Hz	120V/240V~	120V/240V~	120V/240V~	120V/240V~	120V/240V~	120V/240V~
Current input	20A	20A	20A	30A	30A	30A
Current output de-rated	16A	16A	16A	24A	24A	24A
Full load de-rated	1920VA/3840VA	1920VA/3840VA	1920VA/3840VA	2880VA/5760VA	2880VA/5760VA	2880VA/5760VA
Circuit breaker	20/20A	20/20A	20/20A	20/20/30A	20/20/30A	20/20/30A
Multiple Time Delay	Remote only	MTD™ Up	MTD™ Up/Down	Remote only	MTD™ Up	MTD™ Up/Down
Outlets: IEC60320	Type C13	Type C13	Type C13	Type C13	Type C13	Type C13
EMI/RFI filter	20A	20A	20A	30A	30A	30A
Surge Suppression	270V	270V	270V	270V	270V	270V

REQUIRED CABLE ASSEMBLY OPTIONS:



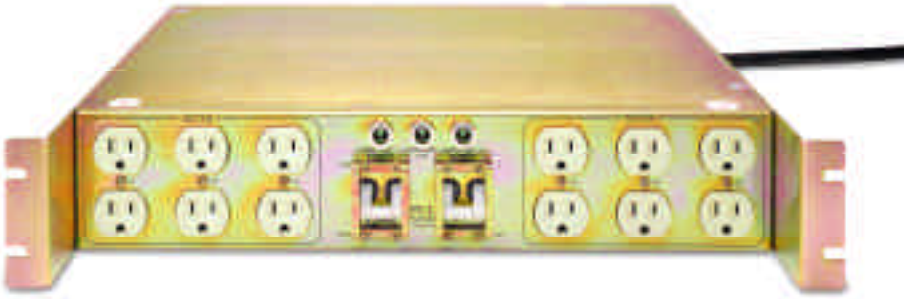
CBL103: 120V/30A with 10/3 cable 9' long terminated with a NEMA L5-30P
CBL104: 240V/30A with 10/3 cable 9' long terminated with a NEMA L6-30P
CBL105: 240V/30A with 3x4.0mm Harmonized cable 9' long terminated with an IEC60309 32A plug

This system is designed to be controlled Locally or Remotely via a remote control panel (refer to pages 34-35).

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Voltage Step Down System
SDC1559: Step Down Controllers 190-240V~ Input, 105-135V~ Output



RACK MOUNTED
- 19" x 3.5" (2U) x 17.0" (excluding 2.5" recess mounting).
- Approximate shipping weight: 75 lbs.

12 NEMA OUTLETS
- 6 per section

3 INDICATOR LIGHTS
- Power available to system
- Power "on" to Section 1 outlets
- Power "on" to Section 2 outlets

POWER INPUT
- Power cable is attached through the rear panel cable grip.

VOLTAGE INPUT/OUTPUT
- Reduce operating voltage from 190-240V~ to an output of 105-135V~ 47/63Hz.

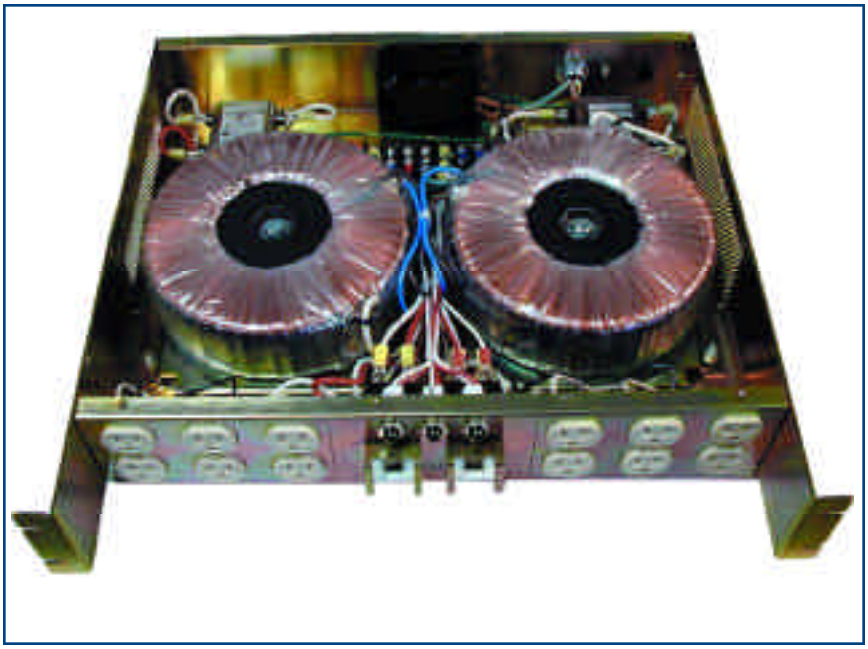
OVERLOAD CIRCUIT PROTECTION
- Precision electromagnetic breaker provides manual on/off switching and trips in an overload condition.
- Two 2-pole breakers per system. The incoming Hot and Neutral wires are divided into two wires each, one set (Hot/Neutral) per transformer and breaker.

EMI/RFI FILTERING
- Common Mode Line to Ground
- Differential Mode Line to Line
- Refer to Chart 4 on page 40

SPIKE/SURGE SUPPRESSION
- Line to Neutral
- Refer to Chart 1 on page 40

TRANSFORMER
- Two Isolation transformers per system for total step down of the voltage input to all 12 outlets.

SPECIFICATIONS	SDC1559-C
Voltage Input (50/60Hz)	190-240V~
Voltage Output (50/60Hz)	105-135V~
Current Input	30A
Current Output De-rated	24A
Full Load V/A De-rated	2880VA
NEMA Outlets	5-15R
Circuit Breaker	15/15A (2)
EMI/RFI Filter	Dual 20A
Power Cord/Length	4.0mm, 9'
Power Input Plug	N/A



Pulizzi® Products Are Made Of 16GA Steel Construction and thoroughly zinc plated inside and out.

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Dual Input Auto Switching Systems
TPC2234 Series: 120V~ OR 240V~, 15A, 20A and 30A, 1Ø, 50/60Hz

Auto-Switching Between Primary and Secondary Power





U.S. and Canadian (Bi-National) Standard for Safety of Information Technology Equipment, Including Electrical Business Equipment, CAN/CSA-C22.2 No. 950-95, UL 1950 3rd Edition, including revisions through revision date March 1, 1998, which are based on the 4th Amendment to IEC 950, 2nd Edition.

RACK MOUNTED
- 19" x 1U (1.75") x 4.5"
- Approximate shipping weight: 5 lbs.

EMI/RFI FILTER
- Add "F" to p/n
- Differential Mode - Line to Line
- Common Mode - Line to Ground
- Refer to Chart 2 (15A/20A units) and Chart 5 (30A units) on page 40

SPIKE/SURGE SUPPRESSION
- L-N, L-G, N-G (add "F" to p/n) on page 40

OVERLOAD CIRCUIT PROTECTION
- Precision electromagnetic breaker provides manual on/off switching and trips in an overload condition.

DUAL POWER INPUT
- Two provided on rear panel with plug
- 240V~ systems do not come standard with a plug but are available as an option.

- **NOTE: Both power sources must be in-phase. Out of phase sources will cause severe damage.**

(8) NEMA OUTLETS
- Switched at one time

INDICATOR LIGHT
- 120V~: Lighted on/off rocker switch for main power.
- 240V~: Light for main power "on".

TRANSFER/RESPONSE TIME
- The TPC2234s will auto-switch to secondary power when the primary source fails. When the primary source is back on line, the system will auto-switch from the secondary source back to the primary.
- 120V~: nominal is 115V~, pull-in is 92.0V~ and dropout is 46.0V~.
- 240V~: nominal is 240V~, pull-in is 192.0V~ and dropout is 96.0V~.
- (1) Secondary Power Input is Good (green light).
- (1) Secondary Power Input is in an under-voltage condition (Amber light).
- Response time from Primary Source to Secondary Source is 20-30ms depending on load.
- Response time from secondary source back to primary is about 15-20ms.

SPECIFICATIONS	TPC2234-A	TPC2234-A-F	TPC2234-A2	TPC2234-A2-F	TPC2234-B	TPC2234-B-F
Approvals	UL/cUL	UL/cUL	UL/cUL	UL/cUL	UL/cUL	UL/cUL
Voltage input/output (50/60Hz)	120V	120V	120V	120V	240V	240V
Current input	15A	15A	20A	20A	15A	15A
Current output (De-rated)	12A	12A	16A	16A	12A	12A
Full load V/A (De-rated)	1440VA	1440VA	1920VA	1920VA	2880VA	2880VA
Circuit Breaker	15A	15A	20A	20A	15/15A	15/15A
NEMA Outlets (8) rear	5-15	5-15	5-20	5-20	6-15	6-15
Surge Suppression (add "F" to p/n)	N/A	YES	N/A	YES	N/A	YES
EMI/RFI Filter (add "F" to p/n)	N/A	20A	N/A	20A	N/A	20A
Surge Suppression (add "F" to p/n)	150V	150V	150V	150V	270V	270V
(2) Power Cords/Length	14/3, 9'	14/3, 9'	12/3, 9'	12/3, 9'	14/3, 9'	14/3, 9'
(2) Plugs	5-15P	5-15P	5-20P	5-20P	N/A	N/A

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Dual Input Auto Switching Systems
TPC2562 Series: 120V~ OR 240V~, 20A, 1Ø, 50/60Hz

Auto-Switching Between Primary and Secondary Power





RACK MOUNTED
- 19" x 1.75" (1U) x 9.5"
- Approximate shipping weight: 9 lbs

SPIKE/SURGE SUPPRESSION
- L-L, L-G, N-G (-120V version)
- L-L (240V version)
- Refer to Chart 1 on page 40

EMI/RFI FILTER
- Differential Mode - Line to Line
- Common Mode - Line to Ground
- Refer to Chart 7 on page 40

IEC60320 C13 OUTLETS (8)
- Switched outlets on the rear panel. Each group of four outlets is rated by UL/CSA up to 250V~/15A, VDE at 250V~/10A each

UNDERVOLTAGE SWITCHING
- TPC2562-120: Dropout of 92.5 VAC and a pull-in of 100 VAC
- The TPC2562-240: Dropout of 185 VAC and a pull-in of 200 VAC
- The Patented Latching hysteresis circuit prevents nuisance transfers between the sources

TRANSFER/RESPONSE TIME
- The TPC 2562 will auto-switch between Primary and Secondary power when the primary source experiences a brown out or black out condition. When the primary source is back on line, the system will switch back to the primary
- Response time from Primary Source to Secondary Source is 20-30ms depending on load.
- Response time from secondary source back to primary is about 15-20ms.
- **NOTE: Both power sources must be in-phase. Out of phase sources can cause severe damage.**

OVERLOAD CIRCUIT PROTECTION
- Precision electromagnetic breaker provides manual on/off switching and trips in an overload condition.

IEC60320 FILTERED C20 INLETS (2)
- 3mm+ contact gap
- Primary and Secondary Power Input
- UL/CSA 125V~/20A or 250V~/16A
- VDE at 250V~/16A

INDICATOR LIGHTS (5)
- (1) Power "on" to system.
- (1) Primary Power Input is Good (green light).
- (1) Primary Power Input is in an under-voltage condition (Amber light).
- (1) Secondary Power Input is Good (green light).
- (1) Secondary Power Input is in an under-voltage condition (Amber light).

SPECIFICATIONS	TPC2562-120	TPC2562-240
Approvals	N/A	N/A
Voltage Input/Output 50/60Hz	120V~	240V~
Current Input	20A	16A
Current Output De-rated	16A	16A
Full Load V/A De-rated	1920VA	3840VA
Outlets (8 on rear)	IEC 60320 C13	IEC 60320 C13
* Circuit Breaker	20/20A	20/20A
EMI/RFI Filter	20A	16A
Surge Suppression	150V	270V
Power Input (IEC60320)	Type C20	Type C20

* TPC2562-120 system breaks both the Hot and Neutral Line.
* The TPC2562-240 separates the Hot into two lines and breaks both lines.

All components utilized in Pulizzi® Products are high quality and agency certified to UL, CSA, VDE safety standards where applicable.

Please refer to page 36 for power cable assemblies to match your country specific requirements.

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Three Phase Systems–NORTH AMERICAN
TPC4100 Series: 120/208V~ 3Ø WYE, 20A and 30A, 50/60Hz



c UL us LISTED

The TPC 4100-A2, TPC 4100-B, TPC 4100-AB and TPC 4100-C are UL Listed and have been tested and approved to U.S. and Canadian (Bi-National) Standard for Safety of Information Technology Equipment, CSA C22.2 No. 60950 * UL60950, 3rd Edition, dated December 1, 2000.

CHASSIS
- 19" x 1.75" (1U) x 9.5"
- Approximately shipping weight: 19 lbs.

EMI/RFI FILTERING
- Common Mode - Line to Ground
- Differential Mode - Line to Line
- Refer to Chart 8 on page 40

SPIKE/SURGE SUPPRESSION
- Line to Line
- Refer to Chart 1 on page 40

BRANCH CIRCUIT PROTECTION
- UL489 Listed electromagnetic breakers, with a long time delay curve, provide both manual on/off switching and open (trip) automatically with an overload condition.

(3) INDICATOR LIGHTS
- Provided for each phase power "ON" via breaker.

(12) NEMA OUTLETS
- (4) Per phase PH-Y and PH-Z on the rear panel and PH-X has two on the rear and 2 on the front panels.

POWER INPUT
- Power cable with locking plug is attached to the unit through the rear panel cable grip.

SPECIFICATIONS	TPC4100-A2	TPC4100-B	TPC4100-AB	TPC4100-C
Approvals	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed
AC Voltage Input 50/60Hz	120/208V WYE	120/208V WYE	120/208V WYE	120/208V WYE
AC Voltage Output	120V~	208V~	120V~ and 208V~	120V~
Current Input	20A	30A	30A	30A
Current Output	16A	24A	24A	24A
Full Load per phase V/A	1920VA	4992VA	2624VA	2880VA
NEMA Outlets	5-20R	6-15R	(6) Each 5-15R, 6-15R	5-15R
Listed Circuit Breaker	(3) 1 pole / 20A	(3) 2 pole / 15A	(3) 2 pole / 15A	(3) 2 pole / 15A
EMI/RFI Filter	30A	30A	30A	30A
Surge Suppression	150V	270V	150V	150V
Cable	12awg / 5wire, 9'	10awg / 5wire, 9'	10awg / 5wire, 9'	10awg / 5wire, 9'
NEMA Power Input	L21-20P	L21-30P	L21-30P	L21-30P

The TPC4100 can be zero-u mounted with optional mounting brackets. For outlet expansion, connect one VPC1917-7, rated at 120V or 240V, 16A per input, into each phase of the TPC4100, for a total of 72 outlets, all Zero-U mounted.





Power Output Section
(close up)



Power Input Section
(close up)

Please refer to page 33 for other VPC models and specifications

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Three Phase Systems–NORTH AMERICAN
TPC4000/MTD Series: 120/208V~ 3Ø WYE, 15A OR 30A, 50/60Hz



RACK MOUNTED
- 19" x 1U (1.75") x 12"
- Approximate shipping weight: 16 lbs.

EMI/RFI FILTERING
- Differential Mode - Line to Line.
- Common Mode - Line to Ground.
- Refer to Chart 8 on page 40

SPIKE/SURGE SUPPRESSION
- L-N, L-G, N-G
- Refer to Chart 1 on page 40

(3 N/O) REMOTE CONTROL
- Remote on/off and EPO control, EPO overrides remote and local control
- Sequence Power Up additional equipment down line

LOCAL/OFF/REMOTE SWITCHING
- Local: Power "on or off" to the switched outlets.
- Off: When breaker is "on" but this switch is in the "off" mode, you will have power to the un-switched outlets only
- Remote: Power "on or off" to the switched outlets via a remote device

(10) OUTLETS
- 3 per phase
- 1 for un-switched power (draws current from phase Z).

MULTIPLE TIME DELAY™ (MTD™)
- MTD Systems only: Activated "Locally" or "Remotely", PH-X powers up, followed 4-seconds later by PH-Y, which is followed 4-seconds latter PH-Z, then 4-seconds later the sequenced remote activates the next system in line

(4) INDICATOR LIGHTS
- Main power to system (CB "on")
- Power to each of the three switched sections

OVERLOAD CIRCUIT PROTECTION
- Precision electromagnetic breakers, with a long time delay curve, provide both manual on/off switching and open (trip) automatically with an overload condition.

SPECIFICATIONS	TPC4000-C/MTD	TPC4000-D/MTD
Approvals	N/A	N/A
Voltage input (50/60Hz)	120/208V~	120/208V~
Voltage output (50/60Hz)	120 V	120 V
Current input per phase	30 AMP per phase	30 AMP per phase
Current output per phase de-rated	24 AMP per phase	24 AMP per phase
Full load V/A per phase de-rated	8640 VA per phase	8640 VA per phase
Main circuit breaker	3 pole: 32/32/32	3 pole: 32/32/32
Secondary breakers	(7) 15 AMP Reset	(7) 20 AMP Reset
EMI/RFI Filter	30 AMP	30 AMP
Surge Suppression	320V	320V
Outlet receptacles NEMA	5-15R	5-20R
Power Cable: AWG/Length/Plug	10/5, 15', L21-30P	10/5, 15', L21-30P

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This system is designed to be controlled Locally or Remotely via a remote control panel (refer to pages 34-35).

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Three Phase Systems–NORTH AMERICAN
PC301/MTD Series: 120/208V~ 3Ø WYE, 20A, 50/60Hz



U.S. Standard for Safety of Information Technology Equipment, Including Electrical Business Equipment, UL 1950 2nd Edition dated February 26, 1993 and CAN/CSA-C22.2 No. 234-M90.

RACK MOUNTED
- 19" x 3.5" (2U) x 8.5" (recessed)
- Approximate shipping weight: 19 lbs.

EMI/RFI FILTER
- Differential Mode - Line to Line
- Common Mode - Line to Ground
- Refer to Chart 2 on page 40

SPIKE/SURGE SUPPRESSION
- L-L, L-N, N-G
- Refer to Chart 1 on page 40

(12) NEMA OUTLETS
- (3) Switched sections of (4) NEMA outlets.
- Systems with MTD: Each section powers up with a 4 second delay.
- Systems without MTD: All 12 outlets power up at one time

LOCAL/OFF/REMOTE SWITCHING
- Local: Power "on or off" to the switched outlets.
- Off: When breaker is "on" but this switch is in the "off" mode, you will have power to the un-switched outlets only
- Remote: Power "on or off" to the switched outlets via a remote device

MULTIPLE TIME DELAY™ (MTD™)
- Systems with MTD: Phase X powers on immediately followed 4-seconds later by Phase Y which is followed 4-seconds later by Phase Z.
- The sequenced remote activates the next unit in line 4-seconds after Phase Z powers up for both MTD and Non-MTD systems.

POWER INPUT
- Power cable is attached to the unit through a rear panel cable grip.

REMOTE I/O PORTS
- 3 front - (N/O)
- Remote on/off and EPO control
- EPO overrides remote and local control
- Sequence Power Up additional equipment down line

(4) INDICATOR LIGHTS
- Main Power "ON"
- Phase X, Y, and Z Power "ON".

SPECIFICATIONS	PC301-C	PC301-C/MTD	PC301-D	PC301-D/MTD
Agency Approval	UL/cUL	UL/cUL	UL/cUL	UL/cUL
Voltage Input, 3 Phase	120/208V~	120/208V~	120/208V~	120/208V~
Voltage Output 1 Phase	120 V~	120 V~	120 V~	120 V~
Frequency (Hertz)	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Current input per phase	20A	20A	20A	20A
Current Output De-rated per phase	16A	16A	16A	16A
Full load V/A De-rated per phase	5760VA	5760VA	5760VA	5760VA
NEMA outlets (12)	5-15R	5-15R	5-20R	5-20R
Main circuit breaker	20/20/20A	20/20/20A	20/20/20A	20/20/20A
EMI/RFI filter	20A	20A	20A	20A
Surge Suppression	150V	150V	150V	150V
Power cord /length (Rear panel)	12/5, 15'	12/5, 15'	12/5, 15'	12/5, 15'
NEMA Power Input Plug	L21-20P	L21-20P	L21-20P	L21-20P

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This system is designed to be controlled Locally or Remotely via a remote control panel (refer to pages 34-35).

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Three Phase Systems–NORTH AMERICAN
PC2641/MTD Series: 120/208V~ 3Ø WYE, 30A, 50/60Hz
(Replaces PC300 Series)





c UL us LISTED

UL Listed and has been tested and approved to U.S. and Canadian (Bi-National) Standard for Safety of Information Technology Equipment, including Electrical Business Equipment, CAN/CSA C22.2 No. 950-95 * UL 1950, 3rd Edition, including revisions through revision date March 1, 1998, which are based on the Fourth Amendment to IEC 950, 2nd Edition.

RACK MOUNTED
- 19" x 3.5" (2U) x 14.5" (recessed)
- Approximate weight: 29 lbs.

(14) NEMA OUTLETS
- 2 unswitched outlets
- 4 switched outlets per phase

(4) INDICATOR LIGHTS
- Main breaker power "on" to system and unswitched duplex
- Power "on" to PH-X, -Y, -Z outlets

SPIKE/SURGE SUPPRESSION
- L-N
- Refer to Chart 1 on page 40

EMI/RFI FILTERING
- Common Mode - Line to Ground
- Differential Mode - Line to Line
- Refer to Chart 9 on page 40

LOCAL/OFF/REMOTE SWITCHING
- Local: Power "on or off" to the switched outlets.
- Off: When breaker is "on" but this switch is in the "off" mode, you will have power to the un-switched outlets only
- Remote: Power "on or off" to the switched outlets via a remote device
- When using the Latching remote, the selection switch is wired for Remote/Off/Remote - There is no local control.

MULTIPLE TIME DELAY™ (MTD™)
- PH-X powers up immediately, followed 4-seconds later by PH-Y, which is followed 4-seconds latter PH-Z, then 4-seconds later the sequenced remote activates the next system in line
  - PC2641-D/MTD and PC2641-D/LT only models

POWER INPUT
- Power cable with plug is attached to unit through the front panel cable grip.

BRANCH CIRCUIT PROTECTION
- UL498 Listed electromagnetic breakers, with a long time delay curve, provide both manual on/off switching and open (trip) automatically with an overload condition.

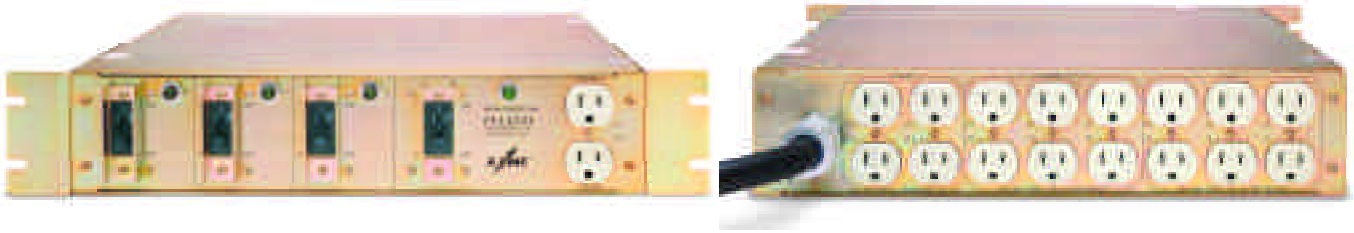
(4 N/O) REMOTE I/O PORTS
- Remote on/off and EPO control, EPO overrides remote and local control
- Sequence Power Up additional equipment down line (standard on all units
- Latching remote - (N/C) EPO, momentary start. Units with "LT" in part number, i.e. PC2641-D-LT or /LT

SPECIFICATIONS	PC2641-D	PC2641-D-LT	PC2641-D/MTD	PC2641-D/LT
Voltage Input 3Ø (50/60Hz)	120/208V~	120/208V~	120/208V~	120/208V~
Voltage Output 1Ø (50/60Hz)	120V~	120V~	120V~	120V~
Current Input per phase	30A	30A	30A	30A
Current Output De-rated per phase	24A	24A	24A	24A
Full Load V/A De-rated all phases	8640VA	8640VA	8640VA	8640VA
NEMA Outlets	5-20R	5-20R	5-20R	5-20R
Main Circuit Breaker (on/off switch)	30/30/30A	30/30/30A	30/30/30A	30/30/30A
Secondary Circuit Breakers per phase	20/20A	20/20A	20/20A	20/20A
Un-switched Duplex Circuit Breaker	20A	20A	20A	20A
EMI/RFI Filter	30A	30A	30A	30A
Surge Suppression	320V	320V	320V	320V
Power Cord/Length/Plug	10/5, 15', L21-30P	10/5, 15', L21-30P	10/5, 15', L21-30P	10/5, 15', L21-30P
Remote Control	Standard Remote	Latching Remote	Standard Remote	Latching Remote
Multiple Time Delay	N/A	N/A	Included	Included

This system is designed to be controlled Locally or Remotely via a remote control panel (refer to pages 34-35).

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Three Phase Systems–NORTH AMERICAN
PC2646 Series: 120/208V~ 3Ø WYE, 30A, 50/60Hz
(Replaces PC2034 Series)



c UL us LISTED

UL Listed and has been tested and approved to U.S. and Canadian (Bi-National) Standard for Safety of Information Technology Equipment, including Electrical Business Equipment, CAN/CSA C22.2 No. 950-95 * UL 1950, 3rd Edition, including revisions through revision date March 1, 1998, which are based on the Fourth Amendment to IEC 950, 2nd Edition.

RACK MOUNTED
- 19" x 3.5" (2U) x 12.0" (excluding 2.5" recess mounting).
- Approximate weight: 29 lbs.

EMI/RFI FILTERING
- Common Mode - Line to Ground
- Differential Mode - Line to Line
- Refer to Chart 9 on page 40

SPIKE/SURGE SUPPRESSION
- L-N
- Refer to Chart 1 on page 40

BRANCH CIRCUIT PROTECTION
- UL498 Listed electromagnetic breakers, with a long time delay curve, provide both manual on/off switching and open (trip) automatically with an overload condition.
  - (1) Main 3-pole 30A breaker
  - (3) Secondary 2-pole breakers

(18) NEMA OUTLETS
- Each Phase has 6 outlets
- Phase Z has 4 outlets on the rear and 2 on the front panel

(4) INDICATOR LIGHTS
- Main breaker power "on" to system
- Power "on" to PH-X outlets
- Power "on" to PH-Y outlets
- Power "on" to PH-Z outlets

POWER INPUT
- Power cable with plug is attached to unit through the rear panel cable grip.

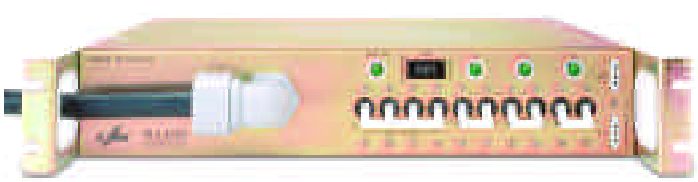
SPECIFICATIONS	PC2646	PC2646-C	PC2646-D
Voltage Input 3Ø (50/60Hz)	120/208V~	120/208V~	120/208V~
Voltage Output 1Ø (50/60Hz)	120V~	120V~	120V~
Current Input per phase	30A	30A	30A
Current Output De-rated per phase	24A	24A	24A
Full Load V/A De-rated all phases	8640VA	8640VA	8640VA
NEMA Outlets	5-15R (4 per phase) L5-15R (2 per phase)	5-15R	5-20
Main Circuit Breaker (on/off switch)	30/30/30A	30/30/30A	30/30/30A
Secondary Circuit Breakers per phase	15/15A	15/15A	20/20A
EMI/RFI Filter	30A	30A	30A
Surge Suppression	320V	320V	320V
Power Cord/Length	10/5, 15'	10/5, 15'	10/5, 15'
NEMA Power Input Plug	L21-30P	L21-30P	L21-30P

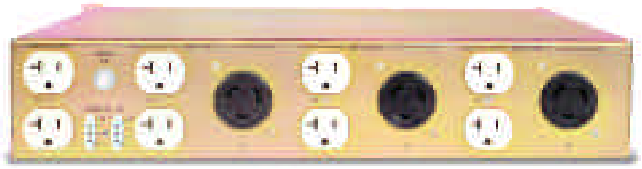
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Three Phase Systems–NORTH AMERICAN
PC975 Series: 120/208V~ 3Ø WYE, 30A, 50/60Hz





U.S. Standard for Safety of Information Technology Equipment, Including Electrical Business Equipment, UL 1950 2nd Edition dated February 26, 1993 and CAN/CSA-C22.2 No. 950-93.

RACK MOUNTED
- 19" x 3.5" (2U) x 14.5" (recessed)
- Approximate shipping weight: 29 lbs.

EMI/RFI FILTERING
- Common Mode - Line to Ground
- Differential Mode - Line to Line
- Refer to Chart 9 on page 40

SPIKE/SURGE SUPPRESSION
- L-N
- Refer to Chart 1 on page 40

(11) NEMA OUTLETS
- (2) Un-switched outlets
- (1) Duplex and (1) twist lock per Phase.

(4) INDICATOR LIGHTS
- Main breaker power "on"
- Power "on" to PH-X, Y and Z

OVERLOAD CIRCUIT PROTECTION
- Precision electromagnetic breakers, with a long time delay curve, provide both manual on/off switching and open (trip) automatically with an overload condition.

LOCAL/OFF/REMOTE SWITCHING
- Local: Power "on or off" to the switched outlets.
- Off: When breaker is "on" but this switch is in the "off" mode, you will have power to the un-switched outlets only
- Remote: Power "on or off" to the switched outlets via a remote device
- When using the Latching remote option, the selection switch is wired for Remote/Off/Remote - There is no local control.

MULTIPLE TIME DELAY™ (MTD™)
- Activated "Locally" or "Remotely", PH-X powers up, followed 4-seconds later by PH-Y, which is followed 4-seconds latter PH-Z, then 4-seconds later the sequenced remote activates the next system in line

(4 N/O) REMOTE I/O PORTS
- Remote on/off and EPO control, EPO overrides remote and local control
- Sequence Power Up additional equipment down line (standard on all units
- Latching remote - (N/C) EPO, momentary start. "LT" systems

POWER INPUT
- Power cable with plug is attached to unit through the front panel cable grip.

SPECIFICATIONS	PC975, PC975-LT	PC975-1969, PC975-1969/LT	PC975-2109, PC975-2109-LT
Approvals	UL/cUL	UL/cUL	UL/cUL
Voltage Input 3Ø (50/60Hz)	120/208V	120/208V	120/208V
Voltage Output 1Ø (50/60Hz)	120V~ and 208V~	120V~ and 120/208V~	120V~
Current Input per phase	30A per phase	30A per phase	30A per phase
Current Output De-rated per phase	24A per phase	24A per phase	24A per phase
Full Load V/A De-rated all phases	8640VA	8640VA	8640VA
Main Circuit Breaker (on/off switch)	4pole 30/30/30/30	4pole 30/30/30/30	4pole 30/30/30/30
Secondary Circuit Breakers per phase	2pole 20/20	N/A	20
Unswitched Duplex Circuit Breaker	20A thermal reset	20A thermal reset	15A thermal reset
EMI/RFI Filter	30A	30A	30A
Surge Suppression	320V	320V	320V
NEMA Outlets	5-20R and L6-20R	5-20R and L21-30R	5-15R and L5-30R
Power Cord/Length/Plug	10/5, 15', L21-30P	10/5, 15', L21-30P	10/5, 15', L21-30P

Other NEMA outlet configurations are available.

This system is designed to be controlled Locally or Remotely via a remote control panel (refer to pages 34-35).

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Three Phase Systems–INTERNATIONAL
PC302-I/MTD: 120/208V~ or 230/400V~ 3Ø WYE, 20A, 50/60Hz
VOLTAGE SELECTABLE (Replaces PC301-I/MTD Series)



U.S. and Canadian (Bi-National) Standard for Safety of Information Technology Equipment, Including Electrical Business Equipment, CAN/CSA-C22.2 No. 950-95, UL 1950 3rd Edition, including revisions through revision date March 1, 1998, which are based on the 4th Amendment to IEC 950, 2nd Edition. The PC302 is also TUV certified to EN 60950:1992 +A1+A2+A3+A4+A11.

RACK MOUNTED
- 19" x 3.5" (2U) x 8.5" with recess mounting
- Approximate shipping weight: 19 lbs

EMI/RFI FILTER
- Differential Mode
- Common Mode
- Refer to Chart 2 on page 40

SPIKE/SURGE SUPPRESSION
- Line to Line
- Refer to Chart 1 on page 40

VOLTAGE SELECTION SWITCH
- Select between 120/208V~ domestic 3-phase input with 120V~ single phase output or
- 230/400V~ European 3 phase input with 230V~ single phase output.

LOCAL/OFF/REMOTE SWITCHING
- Local: "On/Off" to switched outlets.
- Off: When breaker is "on" but this switch is in the "off" mode, you will have power to the un-switched outlets only
- Remote: "On/Off" to switched outlets via a remote control device
- Latching remote, the selection switch is wired for Remote/Off/Remote - There is no local control on the PC302-I/LT

(14) IEC60320 TYPE C13 OUTLETS
- 12 on the front panel switched and 2 on rear panel un-switched.
- Rated by UL/CSA up to 250V~/15A
- Rated by VDE at 250V/10A each

POWER INPUT
- External terminal block for power input is on rear panel.
- High Voltage Cover with attached cable/plug is available, reference below part numbers.

(3 N/O) REMOTE CONTROL
- Remote on/off and EPO control, EPO overrides remote and local control
- Sequence Power Up additional equipment down line
- Latching remote - (N/C) EPO, momentary start on PC302-I/LT only

MULTIPLE TIME DELAY™ (MTD™)
- Activated "Locally" or "Remotely", PH-X powers up, followed 4-seconds later by PH-Y, which is followed 4-seconds latter PH-Z, then 4-seconds later the sequenced remote activates the next system in line

(6) INDICATOR LIGHTS
- Main Power "on"
- Power to Phase X, Y, and Z
- 120/208V~ input selected
- 230/400V~ input selected

SPECIFICATIONS	PC302-I/MTD	PC302-I/LT
Approvals	UL/cUL, TUV, CE	UL/cUL, TUV, CE
Voltage Input (Selectable)	120/208 VAC or 230/400 VAC	120/208 VAC or 230/400 VAC
Voltage Output Single Phase	120 VAC or 230 VAC	120 VAC or 230 VAC
Frequency (Hz)	50/60Hz	50/60Hz
Current Input (Per phase)	20A or 16A	20A or 16A
Current Output (Per phase De-rated)	16 A	16 A
Full load V/A De-rated (per phase)	5760 VA or 3680 VA	5760 VA or 3680 VA
Main circuit breaker	4 Pole 20 A	4 Pole 20 A
IEC60320 Outlets	Type C13	Type C13
EMI/RFI filter	20A per phase	20A per phase
Surge Suppression	270V	270V
Power Input	Terminal Block with Hi-Volt cover	Terminal Block with Hi-Volt cover

REQUIRED CABLE ASSEMBLY OPTIONS: CBL100: 20A with 12/5 cable 9' long terminated with a NEMA L21-20P for use in North America at 120/208V~



CBL102: 20A with 5x2.5mm Harmonized cable 9' long. A plug is not provided so that the end user can provide the country specific plug for use in Europe at 230/400V~

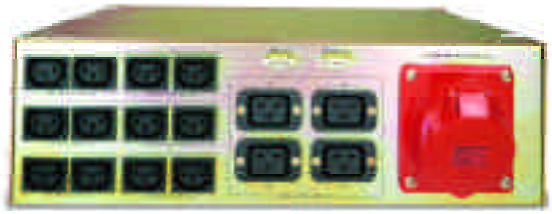
This system is designed to be controlled Locally or Remotely via a remote control panel (refer to pages 34-35).

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Three Phase Systems–INTERNATIONAL
PC2672 Series: 120/208V~ OR 230V/400V~, 3Ø WYE, 30A, 50/60Hz
VOLTAGE SELECTABLE





c UL us LISTED CE

The PC 2672 is UL Listed and has been tested and approved to U.S. and Canadian (Bi-National) Standard for Safety of Information Technology Equipment, CSA C22.2 No. 60950 * UL60950, 3rd Edition, dated December 1, 2000. A CB Report, Certificate and All Country Deviations are on file.

RACK MOUNTED
- 19" x 5.25" (3U) x 16.5" with recess mounting
- Approximate weight: 41 lbs.

POWER INPUT
- 5' Power cable with IEC 309 plug is attached to unit through the front panel cable grip.
- Unit ships with mating connector to attach country specific cable and plug

EMI/RFI FILTERING
- Common Mode - Line to Ground
- Differential Mode - Line to Line
- Refer to Chart 9 on page 40

(17) IEC OUTLETS
(12) C13 Type:
- 120/208V Input, the output is 120V
- 230/400V input, the output is 230V

(4) C19 Type:
- 120/208V input, the output is 208V
- 230/400V input, the output is 230V

(1) IEC 309 3-Phase/30A:
- 120/208V input, the output is 120/208V
- 230/400V input, the output is 230/400V

(3) INDICATOR LIGHTS
- Power "on" to PH-X, -Y, -Z

BRANCH CIRCUIT PROTECTION
- UL489 Listed Main Disconnect breakers, with a long time delay curve, provide manual on/off switching and open automatically trip with an overload condition.

(4) REMOTE I/O PORTS
- 2 Front / 2 Rear: one on each side is sequenced and the other is for remote on/off and EPO control. The PC2672 is controlled remotely only.
- Latching remote - (N/C) EPO between pins 2&3, momentary start between pins 1&3

SPECIFICATIONS	PC2672
Voltage Selectable Input 3Ø (50/60Hz)	120/208V~ or 230/400V~
Voltage Output 1Ø on C13's (50/60Hz)	120V~ or 230V~
Voltage Output 1Ø on C19's (50/60Hz)	208V~ or 230V~
Voltage Output 3Ø on IEC309 (50/60Hz)	120/208V~ or 230/400V~
Current Input per phase	30A
Current Output De-rated per phase	24A
Full Load V/A De-rated all phases	8640VA
Main Listed Breaker	30/30/30A
Secondary Listed Breakers, (1) each for the C19 outlets	(4) 16/16A
Secondary Listed Breakers, (1) each for a pair of C13 outlets	(6) 10A
IEC60320 Type C13 outlets	(12) 15A/125V or 10A/250V
IEC60320 Type C19 outlets	(4) 20A/125V or 16A/250V
IEC309 outlet	(1) 3-phase/30A
EMI/RFI Filter	30A
Power Cord/Length/Plug	10/5, 5', IEC309 30A

CABLE ASSEMBLY OPTIONS:

CBL113: 10/5 cable 9' long terminated with a NEMA L21-30P at one end and a mating IEC309 connector at the other end. For use in North America at 120/208V~

CBL114: 5x4.0mm Harmonized cable 9' long with an IEC309 connector at both ends. For use in Europe at 230/400V~

This system is designed to be controlled Locally or Remotely via a remote control panel (refer to pages 34-35).

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UPS Extension Systems
LPC Family Of UPS Extension Systems



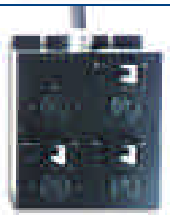
LPC120P: 120V~/30A input and output, 6' cable (10/3) terminated with a NEMA L5-30P. There are (8) NEMA 5-15R outlets with a dedicated 15A thermal reset breaker for each duplex. **7.75"W x 3"H x 10"L**.



LPC1224-1P: 120/240V~/30A input with 120V output, 6' cable (10/4) terminated with a NEMA L14-30P. There are (12) NEMA 5-15R outlets with a dedicated 15A thermal reset breaker for each duplex. **7.75"W x 3"H x 10"L**.



LPC208-1P: 240V~/30A input and output, 6' cable (10/3) terminated with a NEMA L6-30P. There are (4) NEMA L6-30R outlets. **7.75"W x 3"H x 10"L**.



LPC208-2P: 240V/30A input and output, 6' cable (10/3) terminated with a NEMA L6-30P. There are (3) NEMA L6-20R outlets, each with a 2-pole 20A breaker and kick guard and (1) L6-30R unswitched outlet. **7.75"W x 3"H x 10"L**.



LPC1224-2P: 120/240V~/30A input with both 120V and 240V output, 6' cable (10/4) terminated with a NEMA L14-30P. There are (3) NEMA L6-30R outlets and (4) NEMA 5-15R outlets. There is one 15A thermal reset breaker for each of the two 5-15R duplexes. **7.75"W x 3"H x 10"L**.



LPC1224-3P: 120/240V~/30A input with both 120V and 240V output, 6' cable (10/4) terminated with a NEMA L14-30P. There are (8) NEMA 6-15R outlets. Each duplex has a 2-pole 20A breaker with kick guard. There are also (4) NEMA 5-15R outlets. Each duplex has a 15A thermal reset breaker. **7.75"W x 3"H x 10"L**.



LPC115-2FA-LT: 120VAC/15A input and output, 9' cable (14/3) terminated with a NEMA 5-15P. There are (2) NEMA 5-15R outlets, lighted on/off rocker switch, 15A thermal reset breaker, EMI/RFI filtering, Spike/Surge suppression, and Latching which protects your equipment from dangerous current levels. The latching reset will only power the unit back up if the current level is normal. **2.5"H x 8"L x 4.5"W**.



LPC115-4-A: 120VAC/15A input and output, 9' cable (14/3) terminated with a NEMA 5-15P. There are (4) NEMA 5-15R outlets, lighted on/off rocker switch, 15A thermal reset breaker, EMI/RFI filtering and Spike/Surge suppression Line to Line, Line to Ground, Neutral to Ground. **2.5"H x 8"L x 4.5"W**.



NEW LPC2712: 120V~/30A input via attached 9' 10/3 cable and L5-30P plug. Output is via (1) L5-20R and (1) L5-30R outlet. There are (2) breakers, (1) 1P/30A for main power to system, which also controls the L5-30R, and (1) 1P/20A for control of the L5-20R. Once the breakers are in the "on" position, a "START" button on the unit must be pressed to initiate power up. When power is removed, the two-step power up process must be repeated.

SPECIFICATIONS	LPC 120P	LPC 208-1P	LPC 208-2P	LPC 1224-1P	LPC 1224-2P	LPC 1224-3P	LPC 115-2FA-LT	LPC 115-2-AF	LPC 115-4	LPC 2712
Voltage input/output (50-60Hz)	120V	240V	240V	120/240V	120/240V	120/240V	120V	120V	120V	120V
Current input:	30A	30A	30A	30A	30A	30A	15A	15A	15A	30A
Current output (De-rated):	24A	24A	24A	24A	24A	24A	12A	12A	12A	24A
V/A (De-rated):	2880VA	5760VA	5760VA	2880VA	5760VA	5760VA	1440VA	1440VA	1440VA	2880VA
Circuit Breaker:	(4) 15A	N/A	(3) 2P/20A	(6) 15A	(2) 15A	(4) 2P/20A (2) 15A	(1) 15A	(1) 15A	(1) 15A	(1) 2P/30A (1) 1P/20A
EMI/RFI Filtering:	N/A	N/A	N/A	N/A	N/A	N/A	YES	YES	YES	N/A
Surge Suppression:	N/A	N/A	N/A	N/A	N/A	N/A	YES	YES	YES	N/A
NEMA Outlets:	(8) 5-15R	(4) L6-30R	(3) L6-20R (1) L6-30R	(12) 5-15R	(4) 5-15R (3) L6-30R	(4) 5-15R (8) 6-15R	(3) L6-30R	(4) 5-15R	(8) 6-15R	(2) 5-15R
Power cord/length:	10/3, 6'	10/3, 6'	10/3, 6'	10/4, 6'	10/4, 6'	10/4, 6'	14/3, 9'	14/3, 9'	14/3, 9'	10/3, 9'
NEMA input plug:	L5-30P	L6-30P	L6-30P	L14-30P	L14-30P	L14-30P	5-15P	5-15P	5-15P	L5-30P

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Vertical Power Controllers
VPC1917 Series: 120V~ or 240V, 15A, 20A, 60A, 1Ø, 50/60Hz



VPC1917-1



VPC1917-4



VPC1917-5



VPC1917-6



VPC1917-7

RACK MOUNTED

- 70 inch vertical PDU
- Width is 2 inches and depth is 2 inches
- Rugged industrialized 16 GA. steel construction, zinc plated - gold color
- Approximate shipping weight is 15 lbs.

POWER ON SWITCH / INDICATOR LIGHT

- Illuminated On/Off rocker switch is used on the VPC1917-4 and -5
- Power “on” indicator light(s) illuminate when power is supplied to the VPC1917-1, -6, -7. An On/Off switch is not used on the VPC1917-1, -6, -7.

(12-24) OUTLETS

- IEC60320 C13 are used on the VPC1917-1, -6, -7
- NEMA 5-15R are used on the VPC1917-4
- NEMA 5-20R are used on the VPC1917-5

POWER INPUT

- IEC60320 C20 Inlet(s) are used on the VPC1917-1, -6, -7. Refer to power cable options on pages 39-40
- Attached power cable with plug are used on the VPC1917-4 and -5

OVERLOAD CIRCUIT PROTECTION

- Thermal reset breaker is used on the VPC1917-4 and -5
- A breaker is not provided on the VPC1917-1, -6, -7

SPECIFICATIONS	VPC1917-1	VPC1917-4	VPC1917-5	VPC1917-6	VPC1917-7
Voltage Input/Output 50/60Hz	120V or 240V	120V~	120V~	120V or 240V	120V or 240V
Current Input	20A @ 120V 16A @ 240V	15A	20A	15A ea @ 120V = 60A 10A ea @ 240V = 40A	20A ea @ 120V = 60A 16A ea @ 240V = 48A
Current Output De-Rated	16A	12A	16A	10A ea section = 40A	16A ea section = 48A
Full-Load De-Rated	1920VA @ 120V 3840VA @ 240V	1440VA	1920VA	4800VA @ 120V 9600VA @ 240V	5760VA @ 120V 11,520VA @ 240V
Outlets	(12) C13	(12) 5-15R	(12) 5-20R	(16) C13	(24) C13
Circuit Breaker	N/A	15A	20A	N/A	N/A
On/Off Switch	N/A	YES	YES	N/A	N/A
Indicator Light	YES	YES	YES	(1) Per output section = (4)	(1) Per output section = (3)
Power Input Cord/Length	Order Separately	14/3, 9’	12/3, 9’	Order Separately	Order Separately
Power Input Connector	Type C20	5-15P	L5-20P	(4) Type C14	(3) Type C20

Please refer to page 36 for power cable assemblies to match your country specific requirements.

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Remote Control Panels
Standard Remote Control Interface



REMOTE START REQUIRES (2) CONDITIONS:

1. The “on/off/remote” switch must be in the "remote" position.
2. A maintained closure between pins 1 & 3 will turn the unit on.

REMOTE POWER OFF REQUIRES (1) CONDITION:

1. Opening the maintained connection between pins 1 & 3 will turn off the switched outlets.

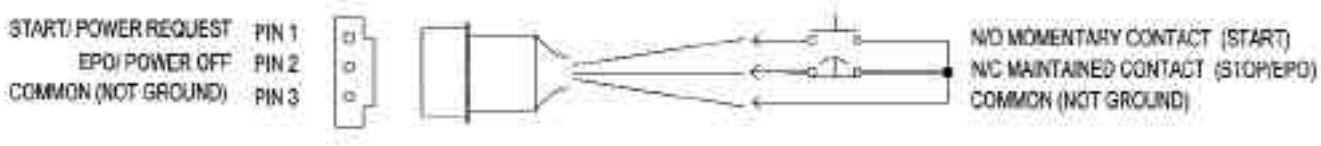
REMOTE EPO REQUIRES (1) CONDITION:

1. A maintained contact between pins 2 & 3 this will turn off the switched outlets regardless of the position of the “on/off/remote” switch.

SEQUENCED REMOTE:
Connect pins 1, 2 & 3 of the sequence port to pins 1, 2 & 3 on any remote port of the slave unit. **(Do not connect to another “sequence” port!)** The sequence port of the master unit activates 4 seconds after the final set of outlets turn on. Additional units may be daisy chained in this fashion.

CAUTION!
THIS TYPE OF REMOTE IS NOT TO BE SUBSTITUTED FOR A SAFETY INTERLOCK!

Latching Remote “LT” Units Only



REMOTE START REQUIRES (2) CONDITIONS:

1. A maintained contact between pins 2 & 3.
2. A momentary contact between pins 1 & 3.

REMOTE POWER OFF OR EPO REQUIRES (1) CONDITION:

1. Opening the maintained connection between pins 2 & 3. Additional EPO or stop buttons can be connected in series between pins 2 & 3.
   This will turn off the switched outlets regardless of the remote switch position.

SEQUENCE REMOTE:
Connect pins 1 & 2 of the “sequence” port to any other remote port on another “-LT” unit. The sequence port activates 4 seconds after the final set of outlets turn on. **(Do not connect to another “sequence” port!)**

NOTE: “LT” units are designed for remote operation only. Even when the "REMOTE/OFF/LOCAL" switch is set to "LOCAL", the unit still requires a power request from the remote ports to turn the unit on.

REMOTE OPERATION: Most Pulizzi® units have more than one remote connector. Unless labeled as “SEQUENCED” they are wired in parallel. Connection to only one remote connector is required. It is recommended to order a Pulizzi® control panel for use with your PDU. Connectors are provided for those who wish to wire their own switches or control panels. We recommend using 14 AWG wire and not exceeding 50 feet for any remote cable. Mating control panels can be seen on our web site at www.pulizzi.com.

If additional remote connectors are needed: The female AMP connectors used in our Power Controllers are: three pin - Part Number 1-480304-0 and four pin Part Number 1-480425-0, and are used with AMP Socket Terminals, Part Number 60619-1. The mating male AMP connector is: three pin - Part Number 1-480305-0, and four pin - Part Number 1-480426-0 and are used with AMP male contacts Part Number 60620-1.

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Remote Control Panels
RCP100-GRY



RCP100-GRY: RACK MOUNTED

- 19" x 1.73" x 2.0", flush mounted, 18 GA. Steel
- Painted FED-STD 595 #26559 light texture Gray.
- Optional: Painted FED-STD 595 #26038 Black. Add BLK to part number "RCP100-BLK".
- Remote cable is 15' long.
- Approximate shipping weight is 5 lbs.

EMERGENCY POWER OFF (EPO)

- RCP100-GRY: Locking (N/O) EPO button for PDU's with the standard 3pin remote I/O port. Turn to reset.
- RCP100-GRY-LT: Locking (N/C) EPO button for PDU's with the latching (LT) option. Turn to reset. Per European requirements, there is a yellow square behind the EPO button.

ON/OFF SWITCH

- RCP100-GRY: 2 position "ON/OFF" switch.
- RCP100-GRY-LT: 3 position spring return dial switch for "OFF" (turns unit off and holds off), "ON" (puts unit in a standby mode), "START" is a momentary action and powers up the unit.

RCP200-GRY



RCP200-GRY: RACK MOUNTED

- 19" x 3.46" x 2.0", flush mounted, 18 GA Steel.
- Remote cable is 15' long.
- Painted FED-STD 595 #26559 light texture Gray.
- Optional: Painted FED-STD 595 #26038 Black. Add BLK to part number "RCP200-BLK".
- Approximate shipping weight is 7 lbs.

EMERGENCY POWER OFF (EPO)

- RCP200-GRY: Locking (N/O) EPO button for PDU's with the standard 3pin remote I/O port. Turn to reset.
- RCP200-GRY-LT: Locking (N/C) EPO button for PDU's with the latching (LT) option. Turn to reset. Per European requirements, there is a yellow square behind the EPO button.

ON/OFF SWITCH

- RCP200-GRY: 2 position "ON/OFF" switch.
- RCP200-GRY-LT: 3 position spring return dial switch for "OFF" (turns unit off and holds off), "ON" (puts unit in a standby mode), "START" is a momentary action and powers up the unit.

(2) NEMA UTILITY OUTLETS

- Utility duplex (NEMA 5-15R) on front panel.

POWER INPUT

- 14/3 AWG power cable is attached to the rear of the duplex and is 6' long terminated with a NEMA 5-15P.

Remote Power Monitoring: RCP2500-AMP



RACK MOUNTED

- EIA standard hole spacing for 19" racks.
- 19" x 1.75" (1U) x 7.0"
- 16 AWG Steel, Painted Fed. Std. 595B, Color #26559 Gray, light texture
- Approximate shipping weight is 8 lbs.

POWER INPUT

- 125V~/15A through rear panel attached 14/3awg cable 9' long and terminated with a NEMA 5-15P.

(5) INDICATOR LIGHTS

- 1 green "ON" for remote PDU status (illuminated when remote PDU is connected to 120 VAC)
- 1 green "ON" for remote PDU breaker status (illuminated when remote PDU breaker is in the "ON" position).
- 1 red "ON" when the EPO is activated.
- 1 green "ON" when EPO is in reset condition (EPO off).
- 1 red "ON" when alarm silent is activated.

AUDIBLE ALARM

- 100dB at 2 feet. "ON" when EPO is activated.

HOUR METER

- 7 digit (0-99999.99 hr) - On when remote PDU is "ON".

(4) CONTROL MOMENTARY PUSHBUTTONS

- Normally open green power "ON" button.
- Normally closed black power "OFF" button.
- Normally open black "EPO TEST" button.
- Operates Alarm and EPO lights only.
- Normally open yellow "Alarm Silent" button.

EMERGENCY OFF SWITCH

- Red mushroom type push button switch.
- Push in to activate Emergency Power "OFF" of remote PDU, alarm will sound.
- Turn knob to reset EPO, Silence Alarm, reset indicators and remote ports J4 and J5.

(6) REMOTE I/O CONNECTORS

- J1 and J2: Remote on/off and EPO output command to remote PDU (connect pins 1 and 3 for remote on/off control and connect pins 2 and 3 for EPO.
- J3: Connect pin EPO output command to remote power controller. Connect pins 1 and 2 for EPO (24VAC circuit).
- J4: Connect pins 1 and 2 to silence EPO alarm (24VAC circuit).
- J5-J6: SPDT contacts to control auxiliary equipment.

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Accessories
Power Cords

(*) 010-0316:
C19 retaining clamp
Used with C20 power inlet 010-0322,
and cables 010-9339, 010-9341.
SUB-HRDWARE-010:
C19 retaining clamp kit for molded cables



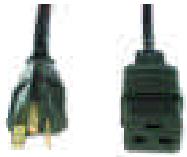
010-0026:
2.5M, 1.5mm/3wire Harmonized
010-0034:
8 foot, 12awg/3wire
C19 to Bare Wire (Pig Tail)



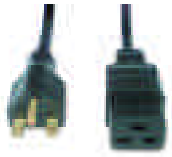
010-9334:
C19 to NEMA 5-15P
125V, 15A Straight Blade
8 foot, 14awg/3wire



010-9335:
C19 to NEMA 5-20P
125V, 20A Straight Blade
8 foot, 12awg/3wire



010-9336:
C19 to NEMA 6-15P
250V, 15A Straight Blade
8 foot, 14awg/3wire



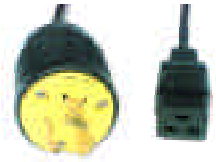
010-9337:
C19 to NEMA 6-20P
250V, 20A Straight Blade
8 foot, 12awg/3wire



010-9338:
C19 to NEMA L5-15P
125V, 15A Twist-Lock
8 foot, 14awg/3wire



010-9339:
C19 to NEMA L5-20P
125V, 20A Twist-Lock
8 foot, 12awg/3wire
(*use 010-0316 clamp)



010-9340:
C19 to NEMA L6-15P
250V, 15A Twist-Lock
8 foot, 14awg/3wire



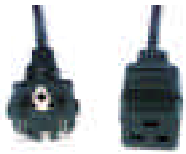
010-9341:
C19 to NEMA L6-20P
250V, 20A Twist-Lock
8 foot, 12awg/3wire
(*use 010-0316 clamp)



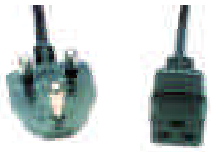
010-9342:
C20 Male to C19
20 AMP
8 foot, 12awg/3wire



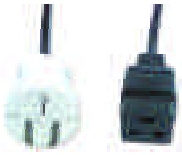
010-9343:
CEE7-7 to C19
250V, 16A EUROPE
2.5M, 1.5mm/3wire Harmonized



010-9344:
BS546A to C19
250V, 15A BRITISH
2.5M, 1.5mm/3wire Harmonized



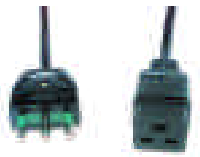
010-9345:
AS/NZS 3112 to C19
250V, 15A AUSTRALIAN
2.5M, 1.5mm/3wire Harmonized



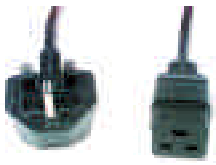
010-9346:
SI32 to C19
250V, 16A ISRAELI
2.5M, 1.5mm/3wire Harmonized



010-9347:
CEI23-16 to C19
250V, 16A ITALIAN
2.5M, 1.5mm/3wire Harmonized



010-9351:
BS1363A to C19
250V, 13A BRITISH
2.5M, 1.5mm/3wire Harmonized



010-0025: 8'
010-0027: 6'
010-0028: 4'
010-0029: 2'
C13 to C14 Harmonized



010-0031:
IEC320 C-14 to CEE7 SCHUKO
250V, 10A
1 foot, 1.0mm/3wire Harmonized



010-0032:
C-14 to NEMA 5-15R
125V, 15A
1 foot, 16awg/3wire



ACCESSORIES

PULIZZI ENGINEERING, INC. Sales / Support: www.pulizzi.com • E-MAIL: sales@pulizzi.com
Phone 800-870-2248 or 605-334-8999 • Fax 605-334-4999 or 605-334-2611
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Accessories
Mounting Brackets and Hardware

Part Number	Description	Notes
001-1044	24" extender bracket 1U	2 Required
001-1045	24" extender bracket 2U	2 Required
001-1046	24" extender bracket 3U	2 Required
001-1280	30" extender bracket 1U	2 Required
001-1403	Kick guard/2 pole	1 Required
001-2041-4	Kick guard/multi pole	2 Required
001-2117	Kick guard/single pole	1 Required
001-1928	Vertical mount side bracket, gold, (2) required Used on units with removable mounting brackets	IPC34XX, TPC4100, TPC2562, TPC2105
001-1928-1	Vertical mount side bracket, black, (2) required Used on units with removable mounting brackets	IPC34XX, TPC4100, TPC2562, TPC2105
KIT-1U-VMTG	Vertical mounting kit for converting 1U products that come standard with permanent rack mount flanges.	All other 1U rack mounted products
001-2142	Flush Mount brackets front or rear (2 Required)	PC110, PC125, PC301, PC420, Series
001-0819-1, 001-0819-2	Flush Mount brackets front or rear (1 each required)	PC2641, PC2721, PC975
REMOTE02	3 pin remote connector kit with pins (2 connectors & 6 pins)	All remote controlled systems
SUB-REM-1200	3 pin to 3 pin remote cable, 12" length	All remote controlled systems
SUB-REM-2400	3 pin to 3 pin remote cable, 24" length	All remote controlled systems
SUB-REM-6000	3 pin to 3 pin remote cable, 60" length	All remote controlled systems
REMOTE08-10	3 pin to 3 pin remote cable, 10' long	All remote controlled systems
REMOTE08-12	3 pin to 3 pin remote cable, 12' long	All remote controlled systems
REMOTE08-035	3 pin to 3 pin remote cable, 35' long	All remote controlled systems
SUB-PWR CORD-281	25 pin RS232 "y" adapter	Used on IPC3100 F only

Individual Plugs

Part Number	Description	Notes
010-0322	IEC60320 type C19 mating connector - Hubbell	UL, CSA, VDE
010-5266	NEMA 5-15P plug	UL, CSA
010-4720	L5-15P Twist-Lock	UL, CSA
010-5366	NEMA 5-20P plug	UL
010-2311	NEMA L5-20 plug	UL
010-2611	L5-30 Twist-Lock	UL, CSA
010-5666	NEMA 6-15P plug	UL, CSA
010-4570	L6-15P Twist-Lock	UL
010-2321	L6-20P Twist-Lock	UL
010-2621	L6-30P Twist-Lock	UL
010-2711	L14-30P Twist-Lock	UL
010-2511	L21-20P Twist-Lock	UL

Rack Mount Fan Trays
(1U or 0U Mounted)



FT3003-01 (Horizontal Mounted)
FT4003-01 (Vertical Mounted)

Operates at 100 VAC to 240 VAC

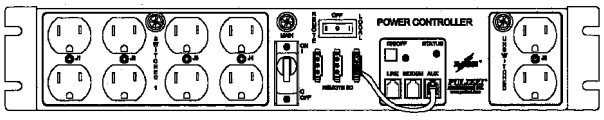


FT3006-01 (Horizontal Mounted)
FT4006-01 (Vertical Mounted)

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Sample Of Custom Configurations
Modified Standard And Custom Designed Systems
To Meet Your Exact Requirements.

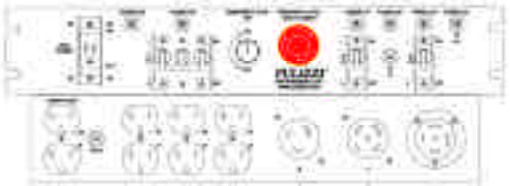
Below is a very small sampling of modified standard and custom systems designed to meet our client's exact requirements. If you don't see a standard catalog part number that meets you're requirement, please contact the sales and technical support personal at 800-870-2248 (US and Canada) or 605-334-8999, via e-mail at sales@pulizzi.com or via fax 605-334-4999.



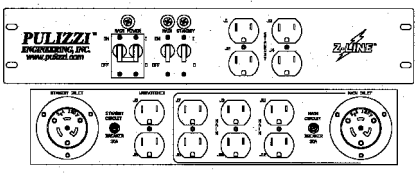
PC125-A-2457 (2U): 120V/15A, remote reboot via mechanical closure or via phone (8) switched NEMA outlets. The first call is (1) ring only and is used to "prime" the PDU for a 2-minute off-hook period. A second call of (4) rings followed by a hang-up, within that 2-minute period, will affect a 2-second EPO contact closure through the AUX port and to the 3pin remote connector internally.



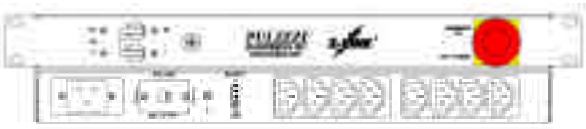
TPC981-C-2360 (1U) : 120V/30A, (12) NEMA outlets with an over current on/off switch and indicator light for each duplex. EMI/RFI filtering and surge suppression are also included.



PC2622 (2U): 3-phase 120/208 WYE, 30A. EPO disables J1, J2, J5 and J6 outlets only. The key switch controls power on and off to the same outlets. Filter, surge suppression and over current protection are included.



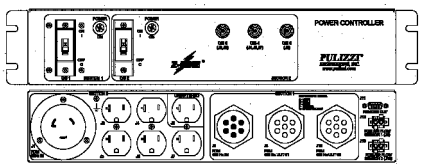
PC1980 (2U): Dual 120V/30A power input system with EMI/RFI Filtering and Surge Suppression. (12) NEMA outlets with (1) 2P/30A main, (2) 1P/15A, and (2) 30A reset breakers provide overcurrent protection.



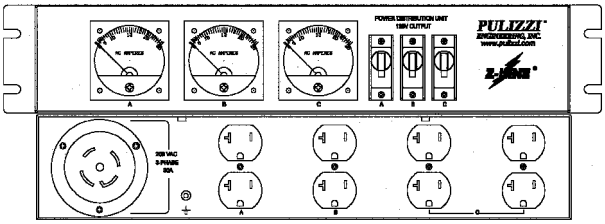
TPC2215 (1U): Voltage selectable for either 120V or 240V, 20A input which is via an IEC60320 C20 inlet with (8) IEC60320 C13 outlets. There is (1) I/O port for remote start (pins 1&3) that also requires a maintained closure between Pins 2&3. If there is a momentary open on pins 2&3, EPO occurs. You can also use the EPO locking button on the front panel that must be pulled out to reset power to the outlets followed by the remote start.



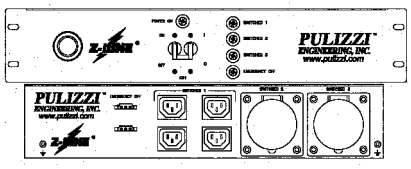
TPC2739 (1U): 120V/20A input via an EN60320 C20 inlet with (8) NEMA 20A outlets. There is a main on/off and over current breaker with indicator light on the front panel. When the EPO is pushed into its locking position, power is removed from the rear outlets. To return power to the outlets, twist and pull out the EPO button. This unit can easily be redesigned into a 240V/20A input system.



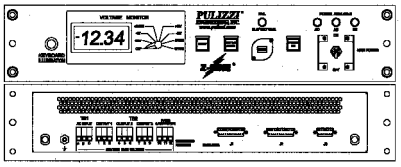
PC 2710 (2U): Dual power input: (1) 120V/30A inlet and (1) 120/208 3-phase 20A 400Hz MIL inlet. There are (5) 5-20R outlets and (2) MIL connectors controlled by the phase control board. Listed branch circuit breaker protection, EMI/RFI filtering, Emergency Power Off and remote on/off control are included.



PC2423 (2U): 3-Phase WYE/30A inlet on the rear panel with (8) NEMA outlets. For each phase, there is a 0-25A current meter as well as a on/off breaker.



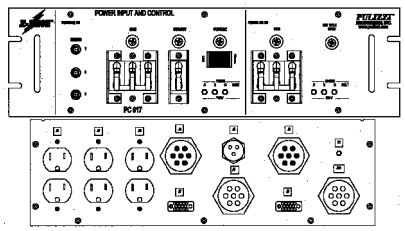
PC2060 (2U): 240V/30A input via an attached cable, with IEC60320 and IEC60309 outlets. SW-1 outlets power up first, 4-seconds later SW-2 and then 4-seconds later SW3 activates. (2) remote I/O ports provide connections for on/off control and EPO (short pins1&3). To reset power after an EPO, remove short and turn off and then back on the main breaker.



PC2494 (2U): 3-phase Delta, 120V15A per phase with filtering, hour meter and voltage monitor with rotary switch to selectively monitor system voltages. A potentiometer is used to adjust the illumination intensity for the externally attached keyboard. Include is a lighted switch for Battleshort and Reset used to override the unsafe temperature sensors. Meets shock and vibration requirements for shipboard installation.

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Sample of Custom Configurations



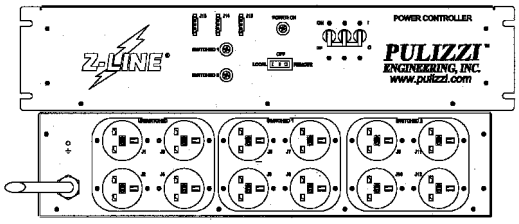
PC917-2000 (3U): Dual 3-phase input, 60Hz and 400Hz with 1-phase, 2-phase and 3-phase output via MIL and NEMA connectors. Filtering, over current protection and surge suppression are included. Remote operation for Standby, Console and 400Hz power requires a maintained closure is on specific pins of the MIL remote connector. The UUT INTLK OPEN indicator light illuminates when there is a loss of 400Hz power.



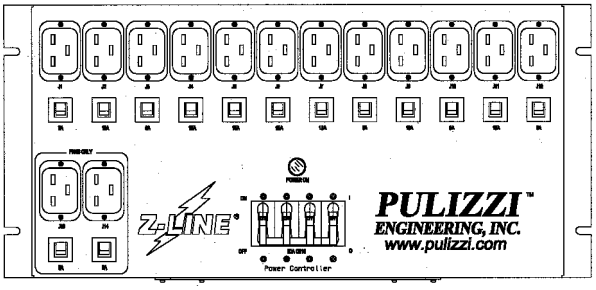
SDC2437 (2U): Step down voltage from 240V/30A to a combination of 240V and 120V NEMA outlets. Filtering, power loss alarm and reset, remote and EPO control and over current protection are included.



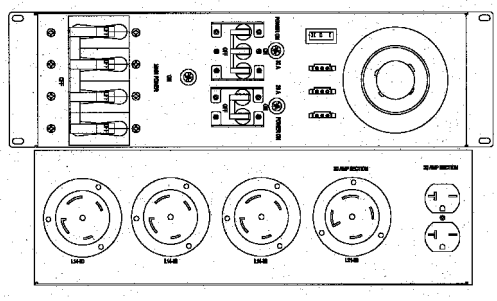
PC2156 (2U): 3-phase voltage selectable between 120/208V or 240/415V / 20A input. Output is either 120V or 240V 1-phase through the (14) IEC60320 C13 outlets. Remote on/off and EPO I/O ports are provided on the rear panel and a elapsed time meter is on the front panel.



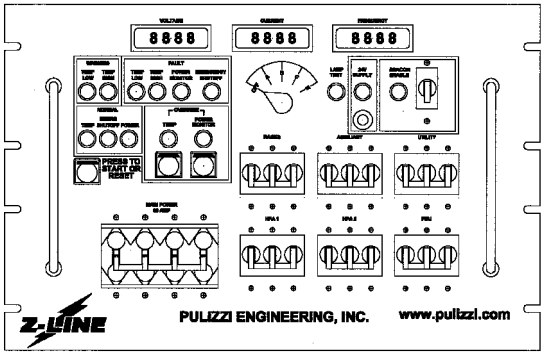
PC2002 (2U): 240V/13A with (12) British BS1363 outlets. Includes local and remote on/off control and EPO, filtering, surge suppression and over current breaker protection.

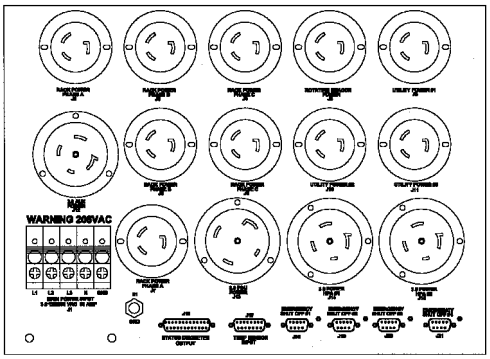


PC1231 (5U): 3-phase 120/208V, 50A and 19" rack mounted, 4.5" deep. Power output is through (14) IEC60320 C19 outlets each is protected by a 5A breaker. The main breaker is 4P/50A and EMI/RFI filtering is included.



PC2272 (3U): 3-phase 120/208 WYE, 60A. Power inlet on the front panel and NEMA outlets on the rear provide both singe and 3-phase output. Remote/local control and EPO is provided through the I/O ports.





PC3021: 3-phase 120/208 60A input via rear panel terminal block. EMI/RFI filtering, phase power / current/ voltage / frequency monitoring, overload circuit protection, NEMA L5-15R, L21-20R and L21-30R outlet connectors. Remote connectors for 28V output / temperature sensors / Emergency Power Off to specific outlets. Front panel also has low and high temp warning, low, high and power monitor fault, temp and power monitor override, and temp and power normal indicator lights and switches.

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Surge Suppression And EMI/RFI Filter Performance

CHART 1:
TVSS (Transient Voltage Surge Suppression)
MOV SPECIFICATIONS

Continuous AC Voltage	150VAC	270VAC	320VAC
Continuous DC Voltage	200VDC	360VDC	420VDC
Maximum DC Leakage	200µA	200µA	200µA
Low Varistor Voltage Limit	212VDC	389VDC	462VDC
High Varistor Voltage Limit	243VDC	453VDC	540VDC
Nominal Varistor Voltage	236VDC	424VDC	503VDC
Current For Varistor Voltage	1mA	1mA	1mA
Maximum Clamp Voltage 8x20µs	360V	680V	810V
Maximum Clamp Voltage Test Current	100A	100A	100A
Peak Current Rating (1 Pulse)	12000A	10000A	10000A
Peak Current Rating (2 Pulse)	9000A	6500A	6500A
Energy Rating (10x1000µs)	170J	325J	385J
Energy Rating (8x20µs)	170.00J	325.00J	385.00J
Capacitance	1700pF	970pF	820pF
Impulse Response Time	50ns	50ns	50ns

CHART 2:
EMI/RFI FILTERING:
COMMON MODE INSERTION LOSS

Mhz.	.2	1.0	2.0	10.0
dB.	15	25	45	50

DIFFERENTIAL INSERTION LOSS

Mhz.	.2	1.0	2.0	10.0
dB.	10	22	32	50

CHART 3:
EMI/RFI FILTERING
COMMON MODE INSERTION LOSS

Mhz.	.01	1	10	20	50	100
dB.	8	29	40	50	68	40

DIFFERENTIAL MODE INSERTION LOSS

Mhz.	.01	1	10	20	50	100
dB.	8	23	45	58	32	28

CHART 4:
EMI/RFI FILTERING
COMMON MODE INSERTION LOSS

MHz.	.15	.50	1.0	5.0	10.0	30.0
dB.	6	19	28	42	45	50

DIFFERENTIAL MODE INSERTION LOSS

MHz.	.15	.50	1.0	5.0	10.0	30.0
dB.	6	6	30	50	30	30

CHART 5:
EMI/RFI FILTERING
COMMON MODE INSERTION LOSS

MHz.	.15	.50	1.0	5.0	10.0	30.0
dB.	6	19	28	42	45	50

DIFFERENTIAL MODE INSERTION LOSS

MHz.	.15	.50	1.0	5.0	10.0	30.0
dB.	2	40	60	65	57	55

CHART 6:
EMI/RFI FILTERING
COMMON MODE INSERTION LOSS

MHz.	.1	.5	1.0	5.0	10.0	20.0	50.0
dB.	18	40	48	62	80	70	60

DIFFERENTIAL MODE INSERTION LOSS

MHz.	.1	.5	1.0	5.0	10.0	20.0
dB.	21	33	41	50	50	50

CHART 7
EMI/RFI FILTERING
COMMON MODE INSERTION LOSS

MHz.	.01	1.0	10.	30.	50.	100.
dB.	13	28	38	50	60	42

DIFFERENTIAL MODE INSERTION LOSS

MHz.	.01	1.0	10.	30.	50.	100.
dB.	13	23	43	59	39	28

CHART 8
EMI/RFI FILTERING
COMMON MODE INSERTION LOSS:

Mhz.	.05	.20	1.0	5.0	20.0	100.0
dB.:	0	35	71	75	66	48

DIFFERENTIAL MODE INSERTION LOSS:

Mhz.	.05	.20	1.0	2.0	5.0	10.0
dB.:	20	30	72	63	58	51

CHART 9
EMI/RFI FILTERING:
COMMON MODE INSERTION LOSS

Mhz.	.05	.15	.50	1.5	5.0	20.0
dB.:	4	18	38	44	50	50

DIFFERENTIAL MODE INSERTION LOSS

Mhz.	.05	.15	1.0	1.5	5.0	20.0
dB.:	12	20	40	60	50	50

PULIZZI ENGINEERING, INC. Sales / Support: www.pulizzi.com • E-MAIL: sales@pulizzi.com
Phone 800-870-2248 or 605-334-8999 • Fax 605-334-4999 or 605-334-2611

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Terms and Conditions of Sale

1. **CHANGES:** Pulizzi Engineering, Inc. (PEI) reserves the right to make specifications and price changes on standard catalog items, without prior notice. Please consult the factory for current product and price information.
2. **PRICING:**
   A. Quotations are firm for a period of (30) days unless otherwise specified.
   B. Prices will remain firm for all scheduled releases. Unscheduled releases may be subject to pricing changes.
   C. Pulizzi Engineering does not "discount back" product already shipped when purchase order quantities are increased.
   D. A "bill-back" will apply on product previously shipped, if committed quantities are not shipped during the period of the contract, or purchase order. The amount billed will be equal to the difference in discount between the actual quantity shipped and that quantity to which the contract/order was committed.
   E. Pulizzi Engineering, Inc. reserves the right to enforce a $50.00 minimum on all orders.
3. **SHIPMENT SCHEDULE:** Change Orders, defined as increases, decreases or reschedule requests pertaining either the ship date or quantity, require a written thirty (30) day notice, prior to the confirmed scheduled ship date for standard catalog items. Custom item rescheduling periods varies by model. Please consult the factory. There is a $50.00 per purchase order change required on the updated purchase order.
4. **DELIVERY:** Delivery will be FOB ORIGIN (PEI plant Santa Ana, CA). Purchaser will be responsible for all subsequent charges. All shipments are to be made FREIGHT COLLECT on client specified carrier and account number. If requested and stated on clients purchase order, freight can be prepaid and added to invoice with prior approval from Pulizzi Engineering. Purchase order must also state the carrier to be used. Pulizzi Engineering, Inc. will ship uninsured. Purchaser hereby grants Pulizzi Engineering a security interest in the products and in any proceeds (including accounts receivable) as security for its obligations hereunder, and will execute any documents required to protect this security interest.
5. **DAMAGED SHIPMENTS:** All outgoing shipments are FOB ORIGIN (PEI plant Santa Ana, CA). Therefore, all damage claims are to be collected by the consignee. Do not return damaged merchandise prior to establishing a claim. If damage is suspected, notify delivery carrier immediately. It is necessary to have the entire shipment inspected by carrier, regardless of the condition of containers. When a claim has been established and a RMA is granted, the damaged material may be returned for repair or replacement. The customer may then collect invoice for repair charges from the carrier. **DO NOT** DESTROY PACKING MATERIAL OR BOXES UNTIL CARRIER'S AGENT HAS EXAMINED THEM.
6. **CANCELLATION:** All orders are subject to cancellation charges. All applicable partial Non-Recurring Engineering (NRE) fees and/or set up fees will be invoiced and are payable in full upon order cancellation. Special orders for items and/or quantities not normally stocked are non-cancelable and non-returnable.
7. **PAYMENT:** Terms are Net thirty (30) days from invoice date for U.S. companies that have their payables location within the United States, on approved credit, unless otherwise stated. All others shall be via money wire transfer prior to shipment. Accounts are reviewed periodically and terms are subject to change as a result of this review, without notice.
8. **TAXES:** Prices are exclusive of, and purchaser is responsible for, all sales, use and like taxes.
9. **WARRANTY:**
   A. Products are warranted against defects in workmanship and materials for a period of one (1) year from the date of shipment. Extended warranties are available, at time of purchase only, at the rate of 15% of the product price per each additional twelve (12) month period.
   B. Pulizzi Engineering's sole responsibility under this warranty shall be to either repair or replace, at its option, any component that fails during the applicable warranty period. A failure shall only be due to faulty workmanship or material, or both.
   C. Exclusions:
      1. Metal Oxide Varistors (MOVS) are protection devices, which are intended to self-destruct in cases of extreme voltage spikes or surges, and repairs relative to these devices, are not covered under this warranty.
      2. External physical damage (not shipping related) to any units **NOT** reported within (30) days of receipt of the product.
      3. Shipping damage (See FOB under [4] **DELIVERY** and [5] **DAMAGED SHIPMENTS**.).
      4. Test failure for tests not authorized by Pulizzi Engineering. Test procedures are available upon request.
   D. Pulizzi Engineering will honor the warranty at a Pulizzi repair facility in the United States as specified by Pulizzi Engineering, provided all procedures are followed. Purchaser will return units(s) at its own expense and only with prior authorization from the factory. An authorized factory representative will give instructions at the time an inquiry is made. Pulizzi Engineering will pay transportation charges to all US destinations (including Alaska and Hawaii) via surface freight or other method (excluding Air Freight). Expedite delivery charges are to be paid by the customer.
   E. If Pulizzi Engineering determines that units returned are not defective under the terms of the warranty, customer will be responsible for all evaluation, test, repair and handling charges or $90.00, whichever is greater, as well as all incoming and outgoing freight charges.
   F. EXCEPT FOR THE EXPRESS WARRANTIES STATED HEREIN, PULIZZI ENGINEERING DISCLAIMS ALL WARRANTIES ON PRODUCTS FURNISHED HEREUNDER, INCLUDING, WITHOUT LIMITATION, ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS; and the stated express warranties are in lieu of all obligations or liabilities connected with the performance of the products.
10. **RETURN MATERIAL AUTHORIZATION (RMA) POLICY:** In order to return material to the manufacturer, a Return Material Authorization (RMA) number is required as well as a customer assigned purchase order number in order to cover the costs of the RMA. This PO shall authorize either: (A) $90.00 per unit fee for no trouble found (NTF) on warranty units or (B) 50% of the purchase price or $125.00 which ever is greater, for repair of non-warranty units. If the repair cost turns out to be greater than this estimate, customer will be notified prior to repairing unit. Otherwise, customer will be billed actual repair cost, not exceeding item (B) above. The RMA number must appear on all shipping labels and packing slips. Failure to do so will result in refusal of shipment. A written description of the fault is also required. The more detailed the failure description, the faster the repair and return will be. Please refer to the **WARRANTY** section **D** for shipping procedures. Shipments sent "FREIGHT COLLECT" will be refused. NOTE: Every effort will be made to correct problems over the phone before an RMA is issued. RMA numbers are good for 30 days only. If Pulizzi Engineering, Inc. does not receive shipment within 30 days of issue; please call for a new RMA number if still required.
11. **EVALUATION UNITS:** All Test and Evaluation orders must be on a purchase order and will be invoiced like a normal shipment, except the terms will be Net (60) days. If the unit is returned within the (30) day test and evaluation period, and is received in a "like new" condition, in the original packaging, a full credit, minus the shipping charges and a $75.00 restocking fee, will be applied to the customer's account. The customer is responsible for **ALL** shipping cost.
12. **EXPORT:** Regardless of any disclosure made by Purchaser to Pulizzi Engineering, Inc., of an ultimate destination of the products, purchaser will not export, either directly or indirectly, any products or systems incorporating such product without obtaining a license from the United States government, as required.
13. **GENERAL PROVISIONS:** In the act of accepting a purchaser's order, Pulizzi Engineering will form an agreement subject only to these TERMS and CONDITIONS. These TERMS and CONDITIONS will supersede any previous communications, representations, or agreements by either party whether verbal or written, including any Terms and Conditions on Purchaser's order. Any modification to these TERMS and CONDITIONS must be in writing and signed by authorized representatives of Pulizzi Engineering, Inc. and Purchaser. This agreement is governed by and construed under the laws of the State of California.
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15. **COLLECTIONS:** Accounts that require a legal and/or collection process will be responsible for all expenses incurred by Pulizzi Engineering, Inc.

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1. All voltage/amperage columns represent the maximum power input, except for the SDC1559, which has an input value of 190-240V/30A but steps the voltage down to an output of 105-135V/30A.
2. "R" models are remote control panels.

								POWER INPUT											
PRODUCT SERIES	PG.	SIZE	# OF OUTLETS	TYPE OF OUTLETS	MTD	REMOTE	EPO	120V 15A	120V 20A	120V 30A	240V 15A	240V 20A	240V 30A	120/240V 30A	120V OR 240V 20A	120V OR 240V 30A	120/208Y 20A	120/208Y 30A	120/208Y OR 230/400Y
IPC3100F	8	NON-RACK	4	NEMA	√	√	√	√											
IPC3401	6-7	1U	8	IEC	√	√	√								√				
IPC3402	6-7	1U	8	NEMA	√	√	√	√	√										
LPC115-2	32	NON-RACK	2	NEMA				√											
LPC115-4	32	NON-RACK	4	NEMA				√											
LPC120	32	NON-RACK	8	NEMA						√									
LPC1224	32	NON-RACK	7 TO 12	NEMA										√					
LPC208	32	NON-RACK	4	NEMA									√						
LPC2712	32	NON-RACK	2	NEMA						√									
PC110	13	2U	12	NEMA				√	√	√	√		√						
PC125	14	2U	12	NEMA		√	√	√	√	√	√		√						
PC2641	27	2U	14	NEMA	√	√	√											√	
PC2646	28	2U	18	NEMA														√	
PC2672	31	3U	17	IEC		√	√												√-30A
PC301	26	2U	12	NEMA	√	√	√										√		
PC302-I	30	2U	14	IEC	√	√	√												√-20A
PC420	15	2U	12	NEMA	√	√	√	√	√	√	√		√						
PC5585	20	2U	14	IEC	√	√	√								√	√			
PC975	29	2U	11	NEMA	√	√	√											√	

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								POWER INPUT											
PRODUCT SERIES	PG.	SIZE	# OF OUTLETS	TYPE OF OUTLETS	MTD	REMOTE	EPO	120V 15A	120V 20A	120V 30A	240V 15A	240V 20A	240V 30A	120/240V 30A	120V OR 240V 20A	120V OR 240V 30A	120/208Y 20A	120/208Y 30A	120/208Y OR 230/400Y 20A
RCP100	35	1U																	
RCP200	35	2U	2	NEMA				√											
RCP2500	35	1U						√											
SDC1559	21	2U	12	NEMA									√						
T8A	9	1U	8	NEMA				√											
T8S	9	1U	8	NEMA				√											
T9092	16	1U	12-15	IEC											√				
T982	4	1U	12	NEMA				√	√	√	√	√	√	√					
TPC115-10	12	1U	10	NEMA	√	√	√	√	√	√	√		√						
TPC12	10	1U	12	NEMA				√	√	√	√								
TPC2104	17	1U	16	IEC											√				
TPC2105	17	1U	16	IEC												√			
TPC2234	22	1U	8	NEMA				2*	2*		2*	2*							
TPC2365	19	1U	12	IEC	√	√	√								√				
TPC2562	23	1U	8	IEC					2*			2*							
TPC4000	25	1U	10	NEMA	√	√	√										√	√	
TPC4100	24	1U	12	NEMA													√	√	
TPC884	18	1U	10	IEC											√				
TPC981	10	1U	12	NEMA				√	√	√	√		√						
TPC981	11	1U	8-12	NEMA				√			√	2*	√						
VPC1917	33	VERTICAL	12	NEMA				√	√										
VPC1917	33	VERTICAL	12-24	IEC											1*3*4*				

Power Inputs:

1*=Single

2*= Dual

3*=Triple

4*=Quad

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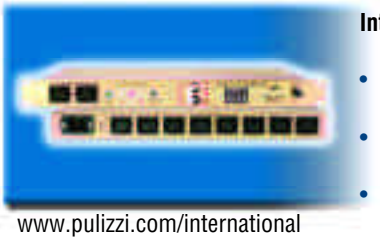
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