

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

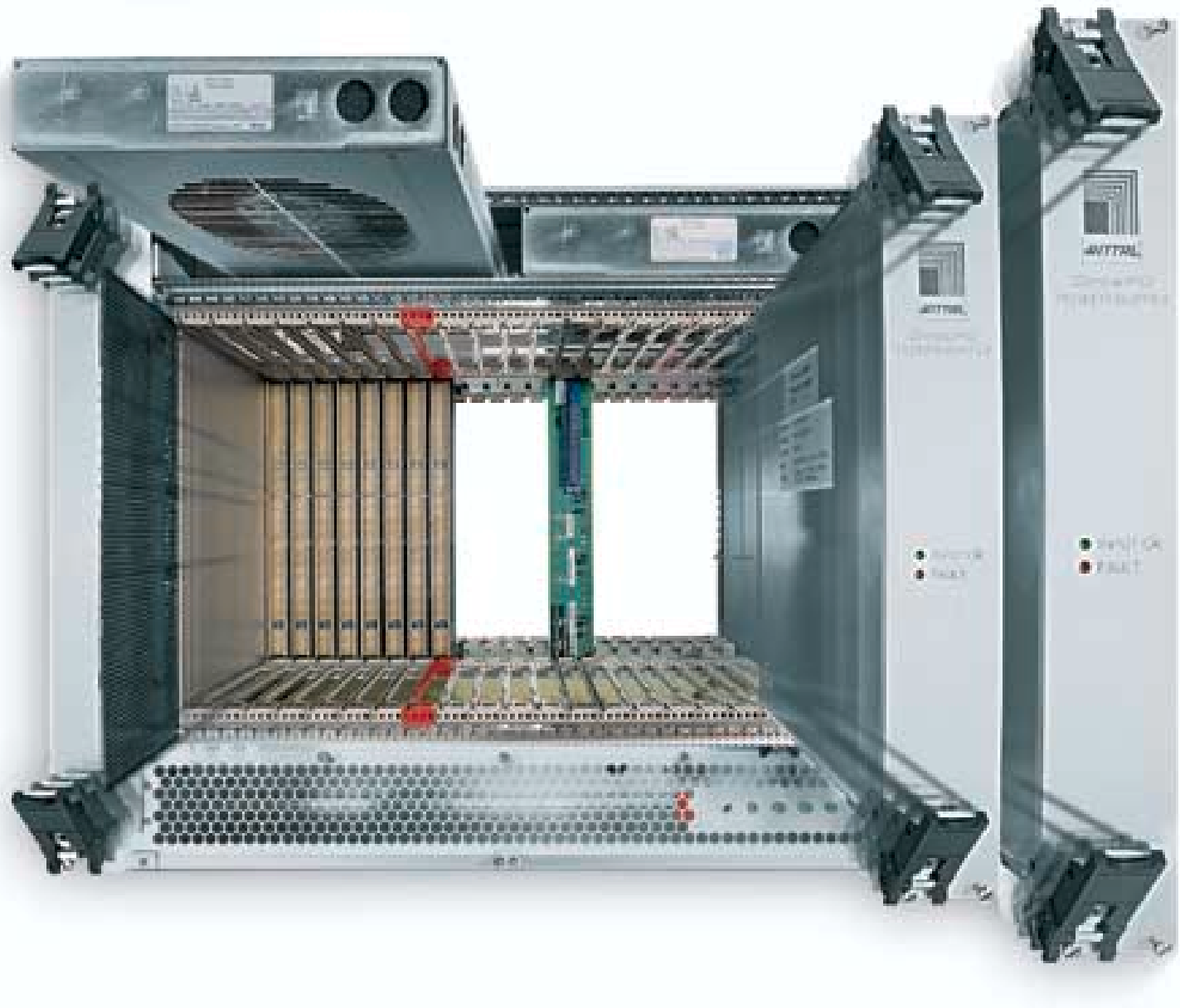
- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

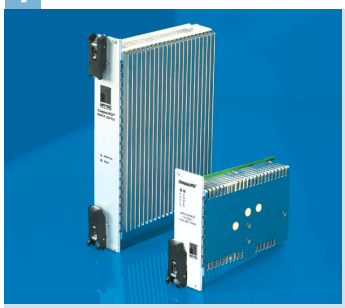
All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Visit our website - *Click HERE*

Power Supplies For VMEbus And CompactPCI Applications



1



Pluggable PSU in accordance with PICMG 2.11 suitable for VME64x and CompactPCI system solutions. A pluggable PSU range is offered

2



Pluggable PSU for VME64x and CompactPCI system solutions. A pluggable PSU range is offered

3



PSU's Open Frame from 100W to 1000W. Suitable for VME and CompactPCI system solutions. Since there are countless options, please inquire for an applications specific solution.

4



ATX Low Cost PSU solution for VME, VME64x and CompactPCI system solutions. Typically used in very low cost and non High Availability (HA) applications.

Power Supplies – PSU's

Power supplies are used in countless appications. Kaparel/Rittal has selected a specific range, suitable for VME, VME64x and CompactPCI system solutions

- PSU's Open Frame for VME and CPCI 140
- PSU's ATX for VME and CPCI 140
- PSU's Pluggable 175 – 350W 141
- PSU's Pluggable 600W 144

Overview Of Power Supply Units

For CompactPCI And VMEbus Systems

Open Frame



100 Watts/400 Watts
Please inquire

Applications

Power supply units for VMEbus and CompactPCI systems

Design Features

- 100 or 400 watts
- Open frame design
- Mounting on mounting base or subrack rear panel
- Cooling via fans
- Wide range input
- 3 outputs



User Benefits

- Minimal space requirements with a high power output
- Universal applications
- Approvals: EN 60 950, UL 1950, IEC 950 and CSA
- Compact design

Open Frame



600 Watts/1000 Watts
Please inquire

Applications

Power supply units for VMEbus and CompactPCI systems

Design Features

- 600 or 1000 watts
- Open frame design
- Mounting on mounting base or subrack rear panel
- Cooling via fans
- Wide range input
- 3 outputs



User Benefits

- Minimal space requirements with a high power output
- Universal applications
- Approvals: EN 60 950, UL 1950, IEC 950 and CSA
- Compact design

PS/2 Design (ATX)



250/300/400 Watts
Please inquire

Applications

Power supply units for ATX, VME, VME64x and CompactPCI systems

Design Features

- 250/300 or 400 Watts
- Open Frame design
- Mounting on mounting base or subrack rear panel
- Integral fan
- Sheet steel enclosure
- PFC active or passive
- Optional redundant design
- Slim line version available



User Benefits

- Universal applications
- Approvals: EN, UL, CSA
- Low cost

3U, 6U Plug-In VME64 Ext



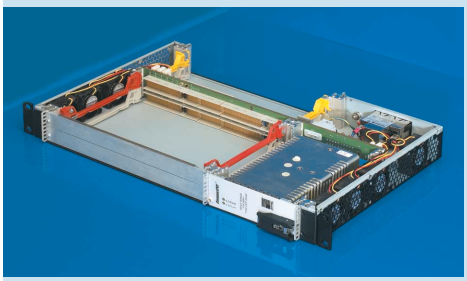
175/200/250/350 Watts
Order No. see pages 142-143.

Applications

Plug-in power supply unit for VME64 Ext and CompactPCI systems.

Design Features

- 175/200/250 or 350 watts
- 482.6 mm (19") module to IEC 60 207-3
- Installation depth 160 mm
- Mounting in the subrack with the aid of guide rails
- Connection via positronic connector 47-pin, PICMG 2.9
- 4 outputs
- Power sharing
- N+1
- Redundant



User Benefits

- 482.6 mm (19") compatible
- Easily exchanged
- Approvals: EN 60 950 A1 - A4, CSA 22.2, UL 1950, C
- Complies with PICMG specifications

600 Watts



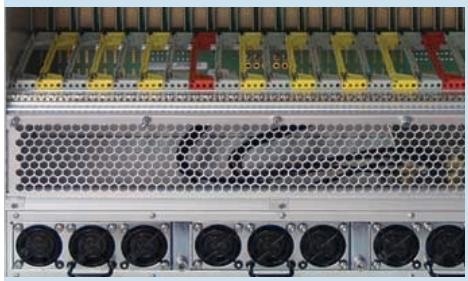
Order Information
see page 144-145.

Applications

- Compact PCI and VME64x systems

Design Features

- Advanced “Cellular Power”™ architecture
- Up to 5 outputs plus 5V, 1A standby
- Hot swap version
- 1.2 to 24V DC outputs
- AC or DC input
- Integral LED status indicators
- I^2C serial data bus option
- 6.8 Watts/cubic inch power density
- Power factor corrected (AC input)
- Low profile: 1.6 inches high
- Hot-pluggable connector



User Benefits

- Easily exchanged
- 3 PSU’s side by side
- Self cooling
- Approvals: EN, UL, CSA

PS3310 Series 3U Power Supplies



General Description:

The PS3310 Series power supplies offer reliable, versatile 3U power solutions for nearly any application. These power supplies features the industry-standard P47 output connector and is available in both AC and DC input models.

The PS3310 Series supplies are only 8HP wide, and will fit Kaparel/Rittal's new 7000 Series line of horizontal, rack-mounted enclosures.

Features:

- Standard PCI output voltages: 5.0 V, 3.3V, 12.0 V with variable currents
- Hot Swap, N+1 redundant with internal OR-ing diodes
- .99 power factor corrected AC 90-264 V input, DC 36-72 V
- Current sharing on 5.0 V and 3.3 V outputs
- Standard 47 Pin connector configuration
- Custom configurations to meet user specified requirements
- Excellent performance, competitively priced
- 2 Year Warranty
- Complies with all requirements of PICMG
- Power interface specifications

Specifications:

Input:
Voltage/Current
AC 90-264 V, 3.2A max, 47-63Hz, 1 Phase; DC 36-72, 7.9A

Fusing:
Internal line fuse provided, non-user serviceable AC- 3.15A, 250 V; DC- 10.0A

Power Factor:
0.99 typical at AC 115 V, full load

Inrush Current:
Thermistor soft start. ~25°C AC cold start current 15Apk @ 115 V; 30Apk @ 230 V

Transient Protection:
MOV. Withstands transients as specified by IEEE C62.41 3K V (differential and common mode)

EMI Filtering:
Meets IFCC Level B, and EN 55022 Level B (conducted)

Efficiency:
70% typical at 115 V AC, full load.

Redundant/Hot Swap:
Full power N+1 redundant and hot swap capable

Outputs:

Voltage/Current:
See table below. Total loading on all outputs not to exceed overall current rating.

Under Voltage Warning:
Any output dropping below 10% or nominal triggers the power fail signal.

Over Voltage Protection:
Non-crowbar type. Any output that exceeds 25% ± 10% of nominal V out will cause all outputs to latch off. Remote inhibit, enable or input recycle required to reset.

Signals, Indicators And Controls:

Remote Enable:
Enabled by closed circuit or TTL logic 0. Disabled by open circuit or TTL logic 1.

Remote Inhibit:
Enabled by open circuit or TTL logic 1. Disabled by closed circuit or TTL logic 0.

Power Fail Warning:
Loss of input AC causes a TTL compatible signal to go low >4 msec prior to any output dropping out of regulation. At AC turn-on, signal stays low until all outputs are in regulation. PF signal also triggered by an under voltage condition on any output.

LED Indicator:
Dual LEDs. Green indicates input power ON and outputs within regulation. Off or Amber indicates input/output power fault.

Interconnect:

I/O Connectors:
Positronic Ind. P/N PCIH47M400A1. Mates with PI P/N PCIH47F300A1.

Note: Use of the specified mating connector is required to insure proper "make/break" sequential contact.

Mechanical:

Outline:
3U x 8HP front panel. Complies with pending PICMG CompactPCI PSU specifications.

Retaining Latches:
Supplied with a single Kaparel/Rittal **Order No. 3686135** Type VII (Telecom) Lower Latch. Other manufacturers and types available.

Order No. 3686135 Type VII (Telecom) lower latch. Other manufacturers and types available.

Guide Rails:
Supplied with .260[6.61] offset guide rails for use with Kaparel/Rittal **Order No. 3687832** (or equivalent) PSU guides.

Weight:
Approximately 1.8 lbs/ 1.06 kgs.

Order No.	Model No.	Current	Dimensions	Input	Connector	Offset	+5 V Output	+3.3 V Output	+12 V Output	-12 V Output
9805701	**PS3310**	175W	3U x 84HP	AC	47-pin	6.61 mm	25A	20A	5A	.5A
9805702	**PS3311**	175W	3U x 84HP	DC	47-pin	6.61 mm	25A	20A	5A	.5A
9805703	**PS3312**	200W	3U x 84HP	AC	47-pin	6.61 mm	30A	25A	5A	.5A
9805704	**PS3313**	200W	3U x 84HP	DC	47-pin	6.61 mm	33A	33A	5A	.5A
9805705	**PS3314**	250W	3U x 84HP	AC	47-pin	6.61 mm	33A	33A	6A	1.5A
9805706	**PS3315**	250W	3U x 84HP	DC	47-pin	6.61 mm	33A	33A	6A	1.5A

PS3350 Series 6U Power Supplies



General Description:

The PS3350 is a high-performance power supply for use in 6U CompactPCI computer, test, and telecom systems. The PS3350 meets all of the requirements of the PICMG CompactPCI Specification, while offering N+1 redundancy and being fully hot swappable. High-density cooling fins are positioned directly in the airstream. All input and output connections are through the backplane. LED status indicators are located on the front panel.

Model PS3350/PS3352/PS3358 – These models have wide-ranging AC input with power factor correction in the standard size package.

Model PS3351/PS3353 – These models have 48-Volt DC input in the standard size package.

Model PS3357 – This model offers wide-ranging AC input with power factor correction in the standard size package, and uses the industry-standard P47 output connector.

Features:

- 350 Watts in 6U x 8HP (two slots) x 160 mm
- Wide range AC input
- 48 V DC versions available
- Standard PCI output voltages: +5 V, +3.3 V,+/-12 V
- High +5 V and high +3.3 V current versions available
- Power factor Correction (PFC)
- N+1 redundant and hot swappable
- Internal OR-ing diodes
- Single wire current sharing on +5 V, +3.3 V, and +12 V outputs
- Fully shielded
- Remote voltage sensing on +5 V, +3.3 V, and +12 V supplies
- IEEE 1101.10 compliant front panels
- Ruggedized mechanical design
- Optional high profile cooling fins available on -48 V input version
- CE mark pending
- UL, ULC, CE approved
- EMC approved (see below for specific standards)

Over-Temperature:
Shutdown upon internal heatsink temperature exceeding limits. Recycle power to re-set.

Safety:
UL, Ulc, CE approvals to EN60950 pending

EMC: EN55022 Class A (AC input)
EN55022 Class B (DC input)

Cooling:
15 CFM / 400LFM forced air required through power supply cooling fins and enclosure

Operating Temperature:
-20C to 50C operating temperature with specified airflow

Shock/Vibration:
Ruggedized construction

Order No.	Model No.	Dimensions	Output connector	Power input	Power output	Output current
9810439	**PS3350**	6U x 8HP	P38	AC:90-264 V, 6A, 47-63 Hz (1 phase)	+5 V@40A +3.3 V@25A +12 V@9A -12 V@2A	350W
9810437	**PS3351**	6U x 8HP	P38	DC:40-72 V, 12A	+5 V@40A +3.3 V@25A +12 V@9A -12 V@2A	350W
9810438	**PS3352**	6U x 8HP	P38	AC:90-264 V, 6A, 47-63 Hz (1 phase)	+5 V@20A +3.3 V@25A +12 V@9A -12 V@2A	350W
9810436	**PS3353**	6U x 8HP	P38	DC:40-72 V, 12A	+5 V@20A +3.3 V@25A +12 V@9A -12 V@2A	350W
3685528	**PS3357**	6U x 8HP	P47	AC:90-264 V, 7A, 50-60 Hz (1 phase)	+5 V@33A +3.3 V@33A +12 V@6A -12 V@1.5A	350W
3688527	**PS3358**	6U x 8HP	P38	DC:36-72 V, 7.9A	+5 V@33A +3.3 V@33A +12 V@6A -12 V@1.5A	350W

Multi-Output Switcher

1U, Up To 4 Outputs At 600 Watt With I²C Option



Features:

- Advanced "CellularPower"™ architecture
- Up to 5 outputs plus 5V, 1A standby
- Hot-Swap version
- 1.2 to 24 V DC outputs
- AC or DC input
- Integral LED status indicators
- I²C serial data bus option
- 6.8 watts/cubic inch power density
- Power factor corrected (AC Input)
- Low profile: 1.6 inches high
- Hot-Pluggable connector
- Staged pin lengths
- Oring diodes on all outputs*
- 1U, 19" Rack-mount holds two units*
- Active current sharing on V1, V2, & V3
- Universal 85 to 264VAC input
- Class B EMI input filter
- Wide range 36 to 72 VDC input
- DC input reverse polarity protected
- Optimized thermal management
- No minimum load, any output
- Control and monitoring features

Rack Mount Ordering Guide:

Other Combinations of output voltage and current are readily achieved with PowerCassette®. These include single outputs, plus standby, up to 600 watts, as well as voltages ranging from 1.2 V up to 24 V. Contact factory for further details.

CE

1AC = 90-264V; DC = 40-72V; AR = Auto range; 48 = 48V.

Max. total power	Output V1		Output V2		Output V3		Output V4		Output V5		AC Order No.	DC Order No.
600W	+3.3 V	70A	+5 V	50A	+12 V	10A	5 V	3A	-	-	**9810966**	**9810967**
600W	+5 V	70A	+3.3 V	50A	+12 V	10A	5 V	3A	-	-	**9818128**	**9810965**

*Note: Maximum combined current or power for V1 and V2 must not exceed 120A or 500 watts. *Maximum combined power for V3, V4 and V5 for these models must not exceed 120 watts. The table does not show the sixth output which is an independent 5 V 1A standby output and is standard on all models. V4 and V5 can be separately made + or – polarity. Contact factory on this.*

Output Specifications:

Total Output Power, Continuous, Max . . . . . 600 Watts
Voltage Adjustment Range, Min . . . . . ±5%
Total Regulation_, V1, V2, V3 . . . . . 2.0%
Total Regulation_, V4, V5 . . . . . 3.0%
Ripple & Noise, Pk-Pk2 . . . . . 1% or 50mV
Holdup Time 20mS
Dynamic Response3 . . . . . 300_S
Temperature Coefficient . . . . . ±0.02%/ºC
Minimum Load, Any Output 0A
Overload Protection . . . . . Auto Recovery
Overvoltage Protection, V1, V2, V3 . . . . . Latches Shutdown
Remote Sense, V1, V2, V3 . . . . . Up to 0.25V Per Wire
Current Share, V1, V2, V3 . . . . . ±10% Full Load Rating
Output Power Good Signal . . . . . TTL High
Input Power Fail Signal . . . . . TTL High
Global Inhibit . . . . . TTL Low
Enable . . . . . TTL Low
Thermal Warming . . . . . TTL Low

AC Input Specifications:

Input Voltage Range . . . . . 85-264 V AC
Power Factor 0.99
Input Frequency 47-63Hz
Inrush Current Limiting . . . . . 30A Peak
Input EMI Filter6 . . . . . EN55022 Curve B
. . . . . FCC20780 pt. 15J Curve B
Harmonic Distortion EN61000-3-2
Input Immunity, Conducted
Fast Transients, Line-Line . . . . . ±2kV (EN61000-4-4 Level 3)
Surges, Line-Line . . . . . ±2kV (EN61000-4-5 Level
Surges, Line-Ground . . . . . ±4kV (EN61000-4-5 Level 4)
Input Protection . . . . . Internal Fuse, 15A)

DC Input Specifications:

Input Voltage Range . . . . . 36-72 DC
Inrush Current Limiting 10A
Input EMI Filter . . . . . Standard
Input Immunity, Conducted
Fast Transients, Line-Line . . . . . ±2K V (EN61000-4-4 Level 3)
Surges, line-Line . . . . . ±500 V (EN61000-4-5 Level 1)
Surges, Line-Ground . . . . . ±500 V (EN61000-4-5 Level 1)
Input Protection . . . . . Internal Fuse, 25A

General Specifications:

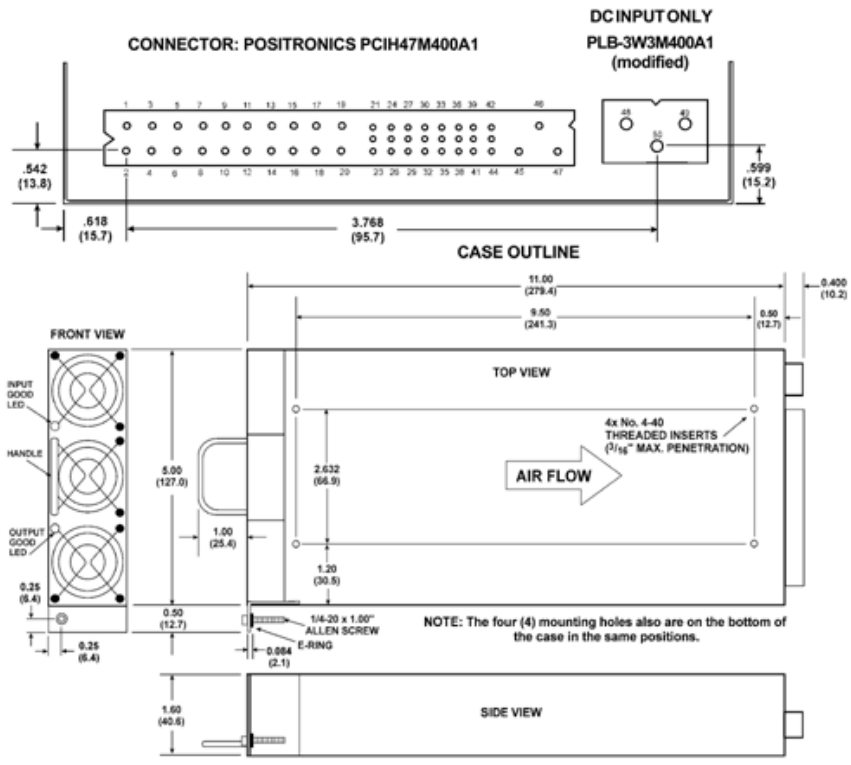
Efficiency4 . . . . . 75% at Full Load
Switching Frequency, PFC Converter (AC Input) 48-1 10kHz
Output Converters . . . . . 275kHz Nominal
Isolation, Class 1, min. 5
Input-Output (AC Input/DC Input) . . . . . 3000 V AC/1500 V DC
Input-Ground (AC Input/DC Input) . . . . . 1500 V AC/1500 V DC
Output-Ground(AC Input/DC Input . . . . . 50 V DC/50/ V DC
MTBF (Bellcore) . . . . . 200,000 Hours
Safety.Standards . . . . . EN60950,UL.1950, CSA22.2.No..950

Environmental Specifications

Operating Temperature . . . . . 0ºC to 70ºC Ambient
Derating . . . . . 2.5%/ºC, 50ºC to 70ºC
Storage Temperature . . . . . -40ºC to +85ºC
Cooling . . . . . Integral Ball Bearing Fans

Physical Specifications

Case Material. . . . . Aluminum
Dimensions, Inches(mm) . . . . . 1.6 H x 5.0 W x 11.0 D
. . . . . (40.6 x 127 x 279)
Weight . . . . . 3.3 lbs. (1.5 kg.)



PIN Staging	
1-20	.300"
21-26	.250"
27	.150"
28-44	.250"
45-47	.450"
48-50	.250"

Pin Connectors

Pin	Function	Pin	Function
1	+V1 Out	26	+5V,1A Standby
2	+V1 Out	27	Enable*
3	+V1 Out	28	Spare/ADD GA1*
4	+V1 Out	29	V1 External Trim
5	+V1 Out	30	+V1 Sense
6	+V1 Out	31	+V1 Sense
7	V1 & V2 Return	32	V2 External Trim
8	V1 & V2 Return	33	+V2 Sense
9	V1 & V2 Return	34	-V2 Sense
10	V1 & V2 Return	35	V1 Current Share
11	V1 & V2 Return	36	+V3 Sense
12	V1 & V2 Return	37	-V3 Sense
13	V1 & V2 Return	38	Output Power Good/SDA*
14	+V2 Out	39	Global Inhibit
15	+V2 Out	40	Overtemp.Warming/SCLK*
16	+V2 Out	41	V2 Current Share
17	+V2 Out	42	Input Power Fail
18	+V2 Out	43	Spare/Interrupt*
19	V3 Return	44	V3 Current Share
20	+V3 Out	45	Chassis Ground
21	V4 Out	46	AC Line
22	Signal Ground	47	AC Neutral
23	V5 Out	48	+DC Input
24	V4 & V5 Return	49	-DC Input
25	Spare/ADD GAO*	50	Chassis Ground

**Note: For unit to operate, pin 27 must be at TTL LO or shorted to pin 22. Pins 25, 28, 38, 40 and 43 also function as I2C outputs. All returns and signal ground are connected together*

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP