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MODULAR HIGH POWER SERIES
FROM 500 TO 4000 WATTS

RELIABILITY

- Demonstrated DC output module MTBF of greater than 5 million hours.
- Ruggedized AC input sections incorporate extensive transient protection.
- Vibration tested at 6 GRMS, 3 axis, 10Hz to 2000Hz.
- Two year warranty.

FLEXIBILITY

- Modular construction; over 10 million configurations available.
- Up to 21 outputs per power supply from 1.0 to 48VDC.
- Parallelable outputs with current sharing.
- System inhibit and individual module output inhibit capability.
- Metric mounting available on selected models.

PERFORMANCE

- Single outputs fully regulated and isolated.
- PFC models meet EN61000-3-2 and EN60555-2.
- EN60950/UL1950 approved. CE Marked to the Low Voltage Directive.
- No minimum loads required on most outputs.

MODULAR HIGH POWER SERIES PRODUCT OVERVIEW

CHASSIS	METRIC MOUNTING	SMF3	HMF3	HMF5	SMM2	SMM3	SMM5	HMM5	HMM7	RMM5
	STANDARD	SPF3	HPF3	HPF5	SPM2	SPM3	SPM5	HPM5	HPM7	RPM5
OUTPUT POWER AND POWER FACTOR										
.99 PFC to meet EN60555		YES	YES	YES	N/A	N/A	N/A	N/A	N/A	N/A
Max output wattage at high range line input		1350	2000	2000	500	1000	1500	2000	2500	4000
Max output wattage at low range line input*		1000	1500	1500	500	1000	1500	N/A	N/A	N/A
INPUT VOLTAGE SPECIFICATIONS**										
High range VAC input		160-264	160-264	160-264	175-264	175-264	175-264	180-264	180-264	180-264
Low range VAC input		85-159	85-159	85-159	90-132	90-132	90-132	N/A	N/A	N/A
VAC input selection		Wide Range	Wide Range	Wide Range	Manual	Manual	Manual	N/A	N/A	N/A
VAC input phases		single	single	single	single	single	single	single	single	three
OUTPUT MODULE SPECIFICATIONS										
Max # of outputs		9	9	15	6	9	15	15	21	15
# of module slots		3	3	5	2	3	5	5	7	5
MECHANICAL SPECIFICATIONS										
Chassis size	H x W x L, inches	5 x 5.5 x 12.5	5 x 5.5 x12.5	5 x 8 x 11	5 x 3 x 11	5 x 5.5 x 11	5 x 8 x 11	5 x 8 x 11	5 x 11 x 13	5 x 8 x 15
Chassis size	H x W	127 x 140	127 x 140	127 x 203	127 x 76	127 x 140	127 x 203	127 x 203	127 x 280	127 x 203
	x L, millimeters	x 318	x 318	x 280	x 280	x 280	x 280	x 280	x 330	x 381
INPUT TRANSIENT PROTECTION SPECIFICATIONS										
ESD Immunity EN61000-4-2,		Level 4 15kV/8kV	Level 4 15kV/8kV	Level 4 15kV/8kV	Consult Factory	Level 4 15kV/8kV	Level 4 15kV/8kV	Level 4 15kV/8kV	Level 4 15kV/8kV	Level 4 15kV/8kV
RF Susceptibility EN61000-4-3		Level 3 10V/m	Level 3 10V/m	Level 3 10V/m	Consult Factory	Level 3 10V/m	Level 3 10V/m	Level 3 10V/m	Level 3 10V/m	Level 3 10V/m
Fast Transient/Burst EN61000-4-4		Level 3 ±2kV	Level 3 ±2kV	Level 3 ±2kV	Consult Factory	Level 3 ±2kV	Level 3 ±2kV	Level 3 ±2kV	Level 3 ±2kV	Level 3 ±2kV
Surge Immunity EN61000-4-5 (Line-Line)		Class 4 2kV	Class 4 2kV	Class 4 2kV	Consult Factory	Class 4 2kV	Class 4 2kV	Class 4 2kV	Class 4 2kV	Class 4 2kV
Surge Immunity EN61000-4-5 (line-Gnd)		Class 4 4kV	Class 4 4kV	Class 4 4kV	Consult Factory	Class 4 4kV	Class 4 4kV	Class 4 4kV	Class 4 4kV	Class 4 4kV

*Maximum wattage above 100VAC input for SPF/HPF **Autorange input denotes continuous operation from 85 to 264 VAC

NUCLEAR AND MEDICAL APPLICATIONS Power-One products are not authorized for use as critical components in life support systems, equipment used in hazardous environments, or nuclear control systems without the express written consent of the President of Power-One, Inc.

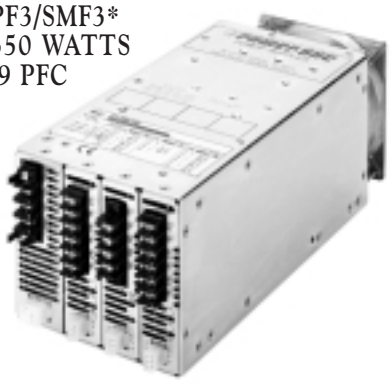
TECHNICAL REVISIONS The appearance of products, including safety agency certifications pictured on labels, may change depending on the date manufactured. Specifications are subject to change without notice.

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MODULAR HIGH POWER SERIES

FROM 500 TO 4000 WATTS

SPF3/SMF3*
1350 WATTS
.99 PFC



SPM2/SMM2*
500 WATTS



HPM5/HMM5*
2000 WATTS



HPF3/HMF3*
2000 WATTS
.99 PFC



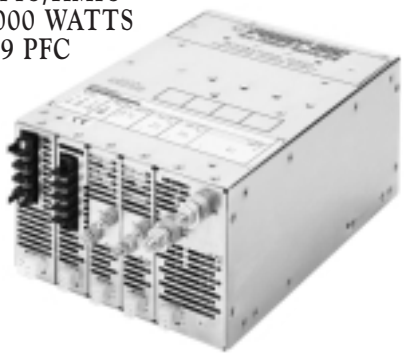
SPM3/SMM3*
1000 WATTS



HPM7/HMM7*
2500 WATTS



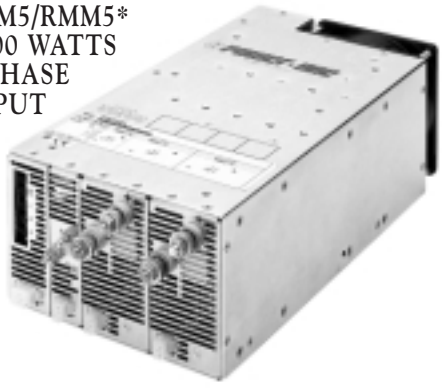
HPF5/HMF5*
2000 WATTS
.99 PFC



SPM5/SMM5*
1500 WATTS



RPM5/RMM5*
4000 WATTS
3 PHASE
INPUT



*Metric mounting models meet all performance specifications of models with SAE mounting inserts.

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MODULAR HIGH POWER SERIES
FROM 500 TO 4000 WATTS

SYSTEM BLOCK DIAGRAM

The Modular High Power Series products are modular power systems using separate switch-mode DC Output Modules to provide the voltage and current ratings required by each specific application.

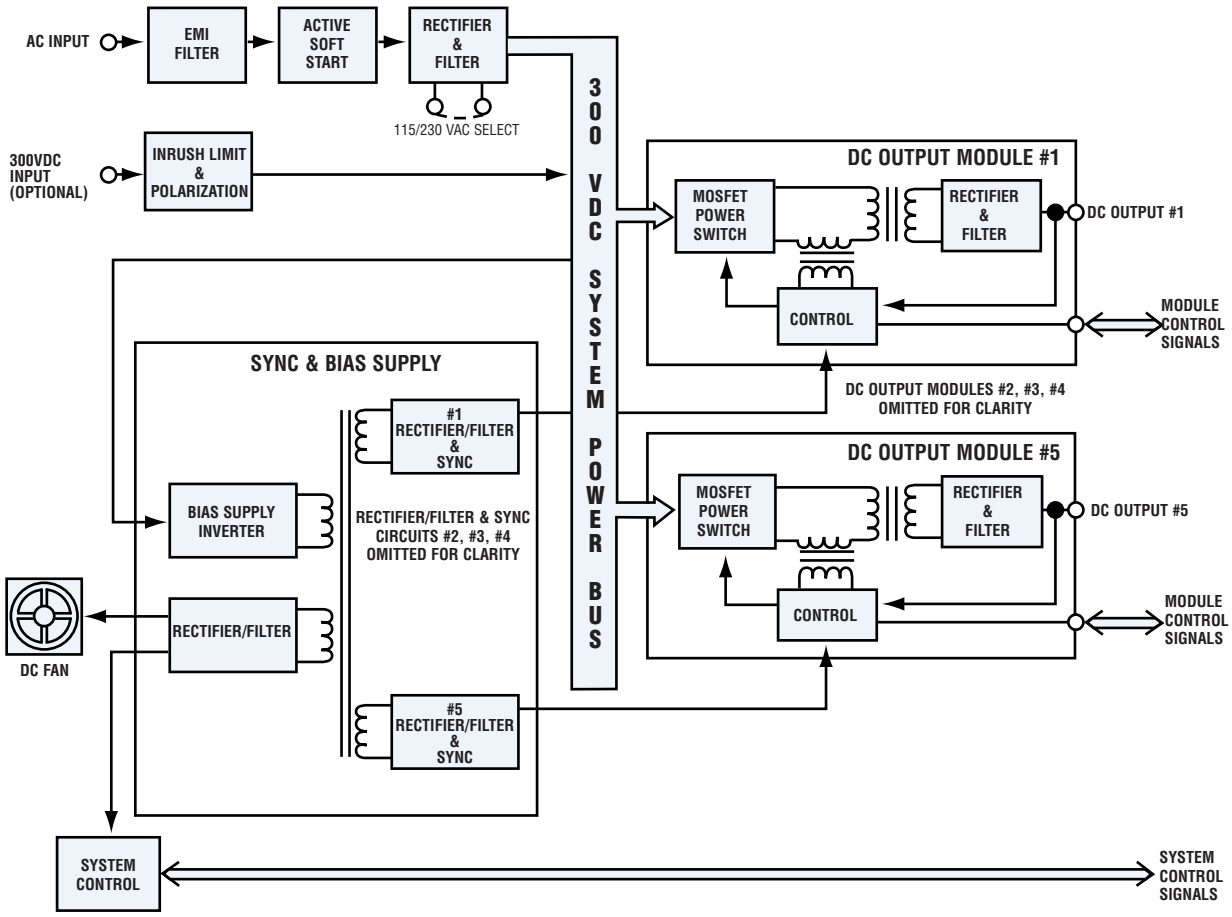
The system is based on a 300 VDC System Power Bus derived from either the AC utility line, or a user supplied 300 VDC source. This 300 VDC bus provides the bulk DC required by each output module for conversion to its specified output voltage and current ratings.

As shown in the block diagram, this independent modular approach provides complete isolation between the outputs, as well as all other system elements. Also, the switching circuitry of each output module is clocked and synchronized by the Sync & Bias Supply section to reduce electrical interference between the outputs.

SELECTION AND CONFIGURATION

The modularity of the International Series High Power products allows the user to specify a power system configured from a wide selection of standard off-the-shelf plug in modules. The power system is delivered completely assembled, burned in, and tested. A part number comprised of a series designation, module listing, and options can be configured as follows:

1. Choose a chassis based on required wattage, number of outputs, and power factor.
2. Select modules following the guidelines in the configuration section.
3. Decide on the options. Standard options are listed in the configuration section. Please call the factory for special requirements, such as logic option cards.



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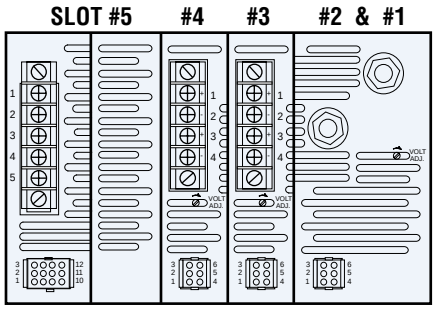
MODULAR HIGH POWER SERIES
SELECTION AND CONFIGURATION

CONFIGURATION NOTES

- Modules are designated in left to right in the part number but are installed right to left in the chassis.
- Single and double wide modules occupy one and two chassis slots respectively. Confirm that the total number of slots required does not exceed the chassis slot capacity.
- Not all modules can be used in all slots. Refer to the compatibility table below.
- Fill blank slots with K or L option.

EXAMPLE: OUTPUTS SELECTED 5V @ 150A, 12V @ 20A, –12V @ 20A

S	P	M	5	A	2	B	1	B	1	K				
MODEL (1500W MAX.)				5V @ 150A		12V @ 20A		–12V @ 20A		SINGLE SLOT BANK	OPTION CODE			



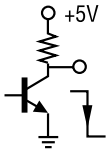
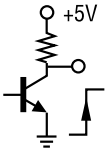
All chassis slots are numbered in right to left sequence

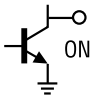
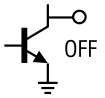
STANDARD OPTIONS

SYSTEM INHIBIT (OPT A, B & C)

POWER OUTPUT		
OPTION	INHIBIT	ENABLE
Std	Logic Low	Open Ckt. or Logic High
A	Logic High	Open Ckt. or Logic Low
B	Open Ckt. or Logic High	Logic Low
C	Open Ckt. or Logic Low	Logic High

INPUT POWER FAIL WARNING (OPT M, N & P)

OPTION	SIGNAL OUTPUT	
Std		Hi To Lo Transition
M		Lo To Hi Transition

OPTION	SIGNAL OUTPUT	
N		Open Collector Conducts To Give Signal
P		Open Collector Opens To Give Signal

OTHER OPTIONS

DESCRIPTION
K – Single Width Slot Blank
L – Double Width Slot Blank
See Paralleled Module Configurations For Additional Options

MODULE AND CHASSIS COMPATIBILITY

Confirm that the number listed in the compatibility column of the module selector guide is equal to or less than the lowest number specified for the module slots pictured below. Example: The SPF3 can only use modules with a slot compatibility of 1 in the slot closest to the input section but can use any module with a compatibility number of four or less in the two other slots. Bold lines designate adjoining slots that can be used for double wide modules.

SPF3/SMF3/HPF3/HMF3

INPUT	1	≤4	≤4

HPF5/HMF5

INPUT	1	≤4	≤3	≤4	≤4

RPM5

INPUT	≤5	≤5	≤5	≤5	≤5

SPM2

INPUT	1	1

SPM3

INPUT	1	≤2	≤2

SPM5/HPM5

INPUT	1	≤4	≤3	≤4	≤4

HPM7

INPUT	1	≤4	≤4	≤4	≤4	≤4	≤4

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MODULAR HIGH POWER SERIES

MODULE SELECTOR GUIDE

SINGLE VOLTAGE OUTPUT MODULES – SEE MECHANICAL DRAWINGS FOR OUTPUT CONNECTION DETAILS, STARTING ON PAGE A69

NOMINAL VOLTAGE	CURRENT (AMPS) @ 50°C (NOTE G)	MODULE	SLOTS USED	SLOT COMPATIBILITY	NOISE & RIPPLE (mV PK-PK) TYPICAL (NOTE A)	NOISE & RIPPLE (mV PK-PK) MAXIMUM (NOTE A)	OUTPUT CONNECTION
1.0V	320	**ER**	2	5	30	100	Type III
1.5V/1.8V	35	**T1** (Note K)	1	1	30	50	Type II
1.5V/1.8V	60	**T6** (Note K)	1	1	30	50	Type I
1.5V/1.8V	250	**T4** (Note K)	2	2	30	50	Type III
2.0V	80	**F8**	1	3	25	40	Type I
2V/2.2V	35	**F1** (Note J)	1	1	20	50	Type II
2V/2.2V	60	**AG** (Note B, J)	1	1	30	50	Type I
2V/2.2V	60	**F6** (Note J)	1	1	30	50	Type I
2V/2.2V	150	**F2** (Note J)	2	2	30	50	Type III
2V/2.2V	180	**CS** (Note J)	2	5	30	50	Type III
2V/2.2V	250	**F4** (Note J)	2	2	30	50	Type III
2V/2.2V	320	**F7** (Note J)	2	5	30	100	Type III
2V/2.2V	375	**QF** (Note B, I)	2	5	30	50	Type III
2.3V	35	**BJ**	1	1	30	50	Type II
3.3V	35	**H1**	1	1	30	50	Type II
3.3V	60	**H6**	1	1	30	50	Type I
3.3V	80	**H8**	1	3	40	50	Type I
3.3V	90	**DA**	1	5	30	50	Type I
3.3V	150	**H2**	2	2	30	40	Type III
3.3V	250	**H4**	2	2	30	50	Type III
3.3V	320	**H7**	2	5	50	100	Type III
5V	35	**A1**	1	1	35	50	Type II
5V	60	**A6**	1	1	15	50	Type I
5V	80	**A8**	1	3	15	50	Type I
5V	90	**DT**	1	5	15	50	Type I
5V	150	**A2**	2	2	30	50	Type III
5V	220/250	**A4** (Note H)	2	3/4	30	50	Type III
5V	320	**A7**	2	5	30	100	Type III
5V	375	**QA**	2	5	30	50	Type III
6V	35	**AU**	1	1	65	90	Type II
6V	100	**CT**	1	5	40	60	Type I
6V	120	**BY**	2	2	40	60	Type III
6V	250	**CU**	2	5	40	100	Type III
8V	65	**AJ**	2	2	53	80	Type III
10V	20	**AW**	1	1	66	100	Type II
10V	40	**BE**	1	3	40	60	Type I
10V	50	**CV**	1	5	66	100	Type I
10V	65	**AQ**	2	2	66	100	Type III
10V	160	**CW**	2	5	100	200	Type III
12V	20	**B1**	1	1	80	120	Type II
12V	40	**B6**	1	3	40	60	Type I
12V	65	**B2**	2	2	80	120	Type III
12V	80	**BC**	2	3	80	120	Type III
12V	135	**DE**	2	5	120	240	Type III
15V	16	**AF** (Note C)	1	1	15	35	Type II
15V	16	**C1**	1	1	100	150	Type II
15V	33	**C6**	1	3	30	60	Type I
15V	50	**C5**	1	5	100	150	Type I
15V	52	**C2**	2	2	100	150	Type III
24V	10	**D1**	1	1	160	240	Type II
24V	15	**D6**	1	2	80	120	Type II
24V	29	**D8**	1	4	60	100	Type I
24V	32	**D2**	2	2	160	240	Type III
24V	33	**D5**	1	5	60	100	Type I
28V	8.6	**E1**	1	1	200	280	Type II
28V	26	**E8**	1	4	70	100	Type I
28V	27	**E2**	2	2	150	280	Type III
28V	29	**E5**	1	5	70	100	Type I
36V	20	**J8**	1	4	100	200	Type I
36V	21	**J2**	2	2	100	200	Type III
36V	23	**J5**	1	5	100	200	Type I
48V	5	**G1**	1	1	400	480	Type II
48V	12.5	**G4** (Note C)	1	3	40	60	Type I
48V	16	**G2**	2	2	135	200	Type III
48V	16	**G8**	1	4	60	100	Type I
48V	19	**G6**	1	5	60	100	Type I

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MODULAR HIGH POWER SERIES
MODULE SELECTOR GUIDE

SINGLE OUTPUT, VARIABLE VOLTAGE MODULES

NOMINAL VOLTAGE	CURRENT (AMPS) @ 50°C (NOTE G)	MODULE	SLOTS USED	SLOT COMPATIBILITY	NOISE & RIPPLE (mV PK-PK) TYPICAL (NOTE A)	NOISE & RIPPLE (mV PK-PK) MAXIMUM (NOTE A)	OUTPUT CONNECTION
1.0V to 1.8V	320	**ER**	2	5	30	100	Type III
1.5V to 2.8V	375	**QF** (Note B)	2	5	50	50	Type III
1.9V to 3V	150	**AB**	2	2	50	50	Type III
14V to 24V	10	**W1**	1	1	80	120	Type II
14v to 24V	32	**BS**	2	2	135	200	Type III

DUAL VOLTAGE OUTPUT MODULES

NOMINAL VOLTAGE	CURRENT (AMPS) @ 50°C (NOTE G)	MODULE	SLOTS USED	SLOT COMPATIBILITY	NOISE & RIPPLE (mV PK-PK) TYPICAL (NOTE A)	NOISE & RIPPLE (mV PK-PK) MAXIMUM (NOTE A)	OUTPUT CONNECTION
12/12	10/4	**M4** Note D)	1	1	120	240	Type II
±12	10/10	**B4** (Note E)	1	1	120	240	Type II
±15	8/8	**C4** (Note E)	1	1	150	300	Type II
±20	5/5	**BQ** (Note E)	1	1	80	100	Type II
±24	5/5	**D4** (Note E)	1	1	80	120	Type II

TRIPLE OUTPUT VOLTAGE MODULES (Note D)

NOMINAL VOLTAGE	CURRENT (AMPS) @ 50°C (NOTE G)	MODULE	SLOTS USED	SLOT COMPATIBILITY	NOISE & RIPPLE (mV PK-PK) TYPICAL (NOTE A)	NOISE & RIPPLE (mV PK-PK) MAXIMUM (NOTE A)	OUTPUT CONNECTION
5/1.5/12	10/10/10	**CA**	1	1	N/A	100/100/120	Type II
5/2.2/12	10/10/10	**W6**	1	1	N/A	100/100/120	Type II
5/12/12	10/10/10	**M6**	1	1	N/A	50/120/120	Type II
5.2/12/12	15/8/8	**BA**	1	1	N/A	100/180/180	Type II
5.2/12/12	5/16/7	**AE**	1	1	N/A	60/160/120	Type II
5/12/24	10/10/5	**U6**	1	1	N/A	50/120/240	Type II
5/15/15	10/8/8	**V6**	1	1	N/A	50/150/150	Type II
5/24/24	10/5/5	**R6**	1	1	N/A	50/240/240	Type II
12/12/12	10/10/10	**N6**	1	1	N/A	120/120/120	Type II
5/15/12	10/8/10	**EC**	1	1	N/A	50/150/120	Type II
24/12/12	5/10/10	**P6**	1	1	N/A	240/120/120	Type II

NOTES: A) The output noise and ripple measurement is bandwidth limited to 20MHz.
B) Module is designed to accommodate output cable losses of up to one volt.
C) Module is designed for use in applications demanding low noise and ripple. Consult factory for further specifications.
D) All triple output modules, as well as the M4 dual output module, have floating outputs. Like voltages may be shared within the same module. All triple output adjustments and interface signals are for output #1. Consult factory for more information.
E) The dedicated negative (-) output is quasiregulated. Both outputs require a small minimum load to perform to specification. Consult factory for more information.
G) For ambient temperatures above 50°C, output current must be linearly derated to 50% at the maximum operational ambient temperature, 70°C.
H) A4 module provides 220A in chassis with slot compatibility rating of 3, and 250A in chassis with slot compatibility rating of 4.
I) Module output is wide range adjustable from 1.5 to 2.8 volts, factory preset to 2.0 volts.
J) Module output is factory set to 2.0 volts. Output voltage will adjust +10% to 2.2 volts.
K) Modules do not adjust -10% below 1.5V or +10% above 1.8V. Consult factory.

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MODULAR HIGH POWER SERIES

PARALLELED MODULE CONFIGURATIONS

For applications that require an output current greater than listed in the Module Selector Guide, it is possible to achieve greater output through the paralleling of multiple single output modules. A performance aspect of the high power modular construction allows for paralleling of common voltage modules of the same or different current ratings for increased output capability. By connecting additional modules in parallel, it is possible to attain output currents up to 730A. All paralleling designations include factory-installed bus bars, as well as internally connected current sharing. Please consult factory for paralleling configurarions not shown.

- Choose appropriate chassis and modules as shown in Selection and Configuration.
- Note the output connection type as shown in the Module Selector Guide.
- Select the paralleling suffix that corresponds to the selected output modules.
- NOTE: Paralleling suffix follows after all other option codes.

CHASSIS	CHASSIS SLOT							PARALLELING SUFFIX
	7	6	5	4	3	2	1	
3 SLOT CHASSIS:								
SPM3, SPF3, SMF3, HPF3, HMF3						I	I	YA
					I	I	I	YB
					II	I	I	YC
					I	III		YD
					II	III		YE
5 SLOT CHASSIS:								
SPM5, HPM5, HPF5, HMF5, RPM5						I	I	YF
					I	I	I	YG
				I	N/U	I	I	YJ
				I	I	I	I	YJ
			II	I	I	I	I	YM
			I	I	I	I	I	YN
					I	III		YP
				III		III		YH
			II	III		III		YR
			I	III		III		YS
7 SLOT CHASSIS:								
HPM7						I	I	YF
					I	I	I	YG
				I	N/U	I	I	YJ
				I	I	I	I	YJ
			I	I	I	I	I	YN
					I	III		YP
				III		III		YH
			I	III		III		YS
		III		III		III		YT

EXAMPLE: REQUIREMENT: 5V @ 300A

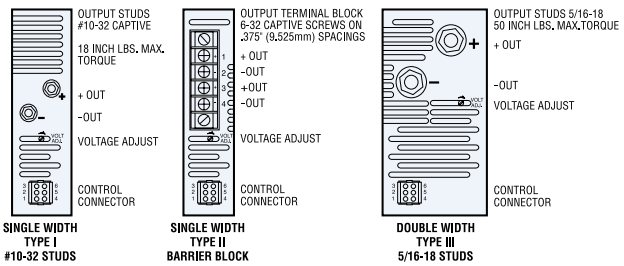
- Select Chassis: HPF3
- Select Modules: A4 (5V @ 250A), A6 (5V @ 60A)
- Choose Corresponding Paralleling Suffix: YD
- Final Part Number: HPF3A4A6YD

LIMITATIONS FOR STANDARD PARALLELING SYSTEM

- Single output modules only
- Ripple and Noise limit will be 20% over the largest value paralleled

LEGEND

Type I = #10-32 studs
Type II = Barrier Block
Type III = 5/16"-18 studs



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MODULAR HIGH POWER SERIES
DC OUTPUT MODULE SPECIFICATIONS

SINGLE AND DUAL OUTPUT MODULES

PARAMETER	CONDITIONS/DESCRIPTION	MIN	NOM	MAX	UNITS
Output Voltage Adjustment Range		-10		+10	%
Output Current	At 0°C to 50°C ambient.	See Module Selector Guide.			
Ambient Temperature Range	100% rated load. Derated linearly to 50% load.	0 0		50 70	°C
Initial Voltage Setting	Factory set.	-1		+1	%
Output Voltage Adjustment		-10		+10	%
Margining/Remote Voltage Adjustment	Range. Programming sensitivity from 2.0V.	-10 -4	 -5	+10 -6	% %/V
Remote Voltage Sense	Total cable drop.			0.5	V
Temperature Coefficient	0 to 50 °C after initial 1 hour warmup.		0.01	0.02	%/°C
Long Term Voltage Drift	1000 hours.			0.1%	
Line Regulation	Over input operating range.		0.05	0.1	%
Load Regulation Single Output Modules Consult Factory For Specific Ratings	≤ 5 Volt Modules 0% to 100% load with remote sense. 0% to 100% load without remote sense. > 5 Volt Modules 0% to 100% load with remote sense. 0% to 100% load without remote sense.	 	 < 10 < 60 < 30 < 75	 	 mV mV mV mV
Cross Regulation Between Single Output Modules in One Chassis	0% to 100% load change.			0	%
Load Regulation, Dual Output Modules	Positive Output 0% to 100% load with remote sense. 0% to 100% load without remote sense.	 	 < 30 < 75	 	 mV mV
Load Regulation, Dual Output Modules	Negative Output 0% to 100% load.			5	%
Cross Regulation, Dual Output Modules	Positive Output 0% to 100% load change.			0.1	mV
Cross Regulation, Dual Output Modules	Negative Output 10% to 100% load change.			5	%
Minimum Load Current	Dual output modules only. See factory data sheets.	1			Amp
Current Limit	Factory set. As a % of full rated Io. Dual output modules use primary power limiting. See module ratings.	110%	115%	120%	Amp
Short Circuit Current	As a % of full rated Io.		100%		Amp
Current Sharing	Current sharing accuracy as a % of full rated Io.			1	%
Overvoltage Protection	Trip point as a % of $V_O \geq 5V$. Resettable by recycling input.	115%	120%	125%	V
Reverse Polarity Protection	Reverse current as a % of full rated Io. Reverse voltage externally applied.			100%	Amp
Inhibit	Logic LO = off Sink current. Logic HI = on Source current.	 2 	 	0.9 0.4 20	V mA V µA
Output Good Signal	Logic LO (when V_O deviates ±3% to ±5% from adjusted set point). Sink current. Logic HI (with internal pull-up to 5V).		 1.5	0.9 40 	V mA kΩ
Noise and Ripple	20MHz bandwith.	See module ratings.			mV_{PP}
Transient Response	75% to 100% load step. 50% to 100% load step. Recovering to 1% within 400 µSec, Slew rate = 1A/µSec.			2% 4%	mV_{PK}
Turn-On Delay	After input applied. After inhibit released.			1 50	Sec mS
Rise Time	5% to 95% of V_O.			50	mS
Overshoot	Overshoot as a % of V_O at turn on.			0%	V
Turn-Off Delay	After inhibit or OVP trip.			500	µS

Specifications in this section are general and may vary according to specific modules.

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MODULAR HIGH POWER SERIES
DC OUTPUT MODULE SPECIFICATIONS

TRIPLE OUTPUT MODULES

PARAMETER	CONDITIONS/DESCRIPTION	OUTPUT #1			OUTPUT #2			OUTPUT #3			UNITS
		MIN.	NOM.	MAX	MIN.	NOM.	MAX	MIN.	NOM.	MAX	
Output Current	At 0°C to 50°C ambient.				See module ratings.						
Ambient Temperature Range	100% rated load. Derated linearly to 50% load.	0		50 70	0		50 70	0		50 70	°C
Initial Voltage Setting	Initial voltage set point as a % of V_O.	-1%		+1%	-1%		+1%	-1%		+1%	V
Output Voltage Adjustment Range		-10%		+10%	-10%		+10%	-10%		+10%	V
Margining/Remote Voltage Adjustment	Range. Programming sensitivity, from 2.5V.	-10% -4	 -5	+10% -6							V %/V
Remote Voltage Sense	Total cable drop.			0.5							V
Temperature Coefficient	0 to 50 °C after initial 1 hour warmup.		0.01	0.02		0.01	0.02		0.01	0.02	%/°C
Long Term Voltage Drift	1000 hours.			0.1%			0.1%			0.1%	
Line Regulation	Over input operating range.		0.05	0.1		0.05	0.1		0.05	0.1	%
Load Regulation	0% to 100% load w/remote sense		0.1	0.2							%
	0% to 100% load w/o remote sense (Note 1)		1	5		1	5		1	5	mV/Amp
Cross Regulation	0% to 100% load change.			0			0			0	%
Minimum Load Current				0			0			0	Amp
Current Limit	Factory set. As a % of full rated I_O.	105%		120%	105%		120%	105%		120%	Amp
Short Circuit Current	As a % of full rated I_O.			100%			100%			100%	Amp
Current Sharing (Note 2)	Current sharing accuracy as a % of full rated I_O. Factory calibrated at 100% load.			5			5			5	%
Reverse Voltage Protection	Reverse current as a % of full rated I_O. Reverse voltage externally applied.			100%			100%			100%	Amp
Inhibit	Logic LO = off Sink current.			0.4 0.4							V mA
	Logic HI = on Source current.	2.5		 20							V µA
Output Fault Signal	Logic low upon current limit detection, OVP, or shut down.										
	Logic LO (with 3 mA sink).			0.7			0.7			0.7	V
	Logic HI (with internal pull-up to 5V)		5.1			5.1			5.1		kΩ
Turn-On Delay	After input applied. After inhibit released.			1 50			1 50			1 50	Sec mS
Rise Time	5% to 95% of V_O.			50			50			50	mS
Overshoot	Overshoot as a % of V_O.			3%			3%			3%	V
Turn-Off Delay	After inhibit or OVP trip.			500			500			500	µS
Overvoltage Protection Resettable by recycling input.	Provided on output #1 only. Trip point as a % of V_O.				5V Output: 130%, ±5% of V_O. 12V Output: 120%, ±5% of V_O. 24V Output: 115%, ±5% of V_O.						

		Output Voltage V_O	5V	12V	15V	24V	
Noise and Ripple	20 MHz bandwidth.	NOM.	65	80	100	160	mV_{PP}
		MAX.	100	120	150	240	
	200 MHz bandwidth.	NOM.	20	20	25	40	mV_{RMS}
		MAX.	30	30	38	60	

		Output Voltage V_O	5V	12V	15V	24V	
Transient Response	75% to 100% load change @ 0.4A/µS.		150	240	240	480	mV_{PP}
	50% to 100% load change @ 0.4A/µS. Recovery to 1% within 400 µS		300	480	480	960	

NOTES: 1) 20 mV max below 5% load.
2) Identical voltages can be paralleled at the factory. Please consult the factory.

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SPF3 / SMF3* HPF3 / HMF3* HPF5 / HMF5*

INPUT

PARAMETER	CONDITIONS	MIN.	NOM.	MAX.	UNITS
Input Voltage	AC Input	85		264	VAC
Input Current	η=70% 115 VAC; 1000W 115 VAC; 1300W 115 VAC; 1500W 230 VAC; 1350W 230 VAC; 1500W 230 VAC; 2000W			 12.8 16.2 19.2 8.6 9.6 12.8	ARMS
Power Factor	85 - 264 VAC; >500W (SPF3, HPF3, HPF5) 85 - 264 VAC; >1300W (HPF3, HPF5)	0.98 0.98			W/VA
Inrush Surge Current	Vin = 132VAC (one cycle) Vin = 264VAC (one cycle)			20 40	APK
Input Frequency	AC Input	47		63	Hz
Start Up Time	From time AC is applied to Vout is in regulation			1.5	Sec
Hold-up Time	85- 264VAC at rated maximum power	23			mS
Input Power Fail Warning	Logic signal time before regulation dropout due to loss of input power	5			mS
Overtemperature Warning	Advance warning before shutdown	10			mS

SAFETY AND EMI

Agency Approvals	UL1950 CSA 22.2 No. 950 EN60950 (TÜV)				
Line Harmonic Disturbance	EN60555-2 EN61000-3-2				
Dielectric Withstand Voltage	Input to Output ("Y" capacitors disconnected) Input to Chassis Output to Chassis	4300 2300 500			VDC
Leakage Current	Per UL1950 and CSA 22.2 No. 950 Per EN60950			1.5 2.5	mA
Electromagnetic Interference	FCC CFR title 47 Part 15, Sub-Part B Conducted EN55022 / CISPR 22, Conducted			Level A	

GENERAL

Output Power	SPF3 Full Load, 85-100 VAC input SPF3 Full Load, 101-159 VAC input SPF3 Full Load, 160-264 VAC input HPF3/HPF5 Full Load, 85-100 VAC input HPF3/HPF5 Full Load, 101-159 VAC input HPF3/HPF5 Full Load, 160-264 VAC input			875 1000 1350 1300 1500 2000	Watts
Efficiency	Full Load, Nominal Line Input		75		%
Vibration	Random Vibration, 10Hz to 2Khz, 3 axis			6	GRMS
Shock	Operating, peak acceleration			20	GPK
Operating Temperature	At 100% load Derate linearly above 50°C to 50%	0		50 70	°C
Storage Temperature		-40		85	°C
Altitude	Operating Non-Operating			10,000 50,000	Feet
Relative Humidity	Non-Condensing			95	%
Acoustical Noise	"A" Weighted @ 1 meter			50	dB
Cooling	Static pressure through system enclosure			0.05	In of H_2O

*Metric mounting chassis meet all specifications of non-metric models.

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SPM2 / SMM2* SPM3 / SMM3*

INPUT

PARAMETER	CONDITIONS	MIN.	NOM.	MAX.	UNITS
Input Voltage	AC Input Low range High range	 90 175	 115 230	 132 264	 VAC VAC
	DC Input	250	300	350	VDC
Input Current	SPM2 500Watt Load Vin = 90 VAC Vin = 175 VAC Vin = 250 VDC			 13 6.3 3	 ARMS ARMS ADC
	SPM3 1000Watt Load Vin = 90 VAC Vin = 175 VAC Vin = 250 VDC			 25 13 3	 ARMS ARMS ADC
Inrush Surge Current	SPM2 Vin = 132 VAC Vin = 264 VAC			 60 60	 APK
	SPM3 Vin = 132 VAC Vin = 264 VAC			 19 38	 APK
Input Frequency	With AC Input	47		440	Hz
Hold-up Time	After last AC line peak with 115/230 VAC Input	23			mS
Input Power Fail Warning	Logic signal before regulation dropout due to loss of input power	5			mS
Overtemperature Shutdown	System shutdown due to excessive internal temperature	75		85	°C
Thermal Warning	Advanced warning before overtemperature shutdown	10			mS

SAFETY AND EMI

Agency Approvals	UL1950 CSA22.2 #950 EN60950 (TÜV)				
Dielectric Withstand Voltage	Input to Output Input to Chassis Output to Chassis	4300 2300 500			VDC
Insulation Resistance	Input to Output Input to Chassis Output to Chassis	10 10 2			Meg Ω
Leakage Current	SPM2/SPM3			1.75/1.25	mA
Safety Spacing	Primary to Secondary Primary to Chassis	8 4			mm
Electromagnetic Interference	FCC CFR title 47 Part 15, Sub-Part B Conducted EN55022 / CISPR 22, Conducted			Level A	

GENERAL

Output Power (Max)	SPM2 SPM3			500 1000	Watts
Efficiency	Full load, typical modules.	75			%
Power Factor	115/230 VAC input		0.7		W/VA
Vibration	Random vibration from 10Hz to 2 KHz, (3 axis)			6.0	GRMS
Shock	Operating: peak acceleration			20	GPK
Operating Temp.	At 100% Load Derate to 50% at 70˚C	0		50 70	˚C
Storage Temp.		–40		85	˚C
Altitude	Operating (Consult factory for operation above 10,000 feet)			10,000	Feet
	Non-operating			50,000	Feet
Relative Humidity	Non-condensing			95	%
Acoustical Noise	"A" weighted, anechoic at 1 meter			50	dB
Cooling	Internal Fan Cooled (At Sea Level) SPM2 SPM3		 25 50		CFM

*Metric mounting chassis meet all specifications of non-metric models.

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SPM5 / SMM5* HPM5 / HMM5* HPM7 / HMM7*

INPUT

PARAMETER	CONDITIONS	MIN.	NOM.	MAX.	UNITS
Input Voltage HPM5/HPM7 Operate Only On High Range	AC Input Low range-SPM5 only High range	 90 175	 115 230	 132 264	 VAC VAC
	DC Input DC Input Range	 250	 300	 350	 VDC
Input Current	Vin = 90 VAC Vin = 175 VAC Vin = 250 VDC			2 1 0.53	ARMS/100 Watts Load ARMS/100 Watts Load ADC/100 Watts Load
Inrush Surge Current	Vin = 132 VAC Vin = 264 VAC			19 38	APK
Input Frequency	With AC Input	47		440	Hz
Hold-up Time	After last AC line peak with 115/230 VAC Input	30			mS
Input Power Fail Warning	Logic signal before regulation dropout due to loss of input power	3			mS
Thermal Warning	Warning before overtemperature shutdown	10			mS

SAFETY AND EMI

Agency Approvals	UL1950 CSA22.2 #950 EN60950 (TÜV)				
Dielectric Withstand Voltage	Input to Output Input to Chassis Output to Chassis	4300 2300 500			VDC
Insulation Resistance	Input to Output Input to Chassis Output to Chassis	10 10 10			Meg Ω
Leakage Current	Per UL1950 and CSA 22.2 No. 950 Per EN60950			1.5 2.5	mA
Safety Spacing	Primary to Secondary Primary to Chassis	8 4			mm
Electromagnetic Interference	FCC CFR Title 47 Part 15, Sub-Part B Conducted EN55022 / CISPR 22, Conducted			Level A	

GENERAL

Output Power (Max) - SPM5/HPM5/HPM7				1500/2000/2500	Watts
Efficiency	Full Load		75		%
Power Factor	115/230 VAC input, typical modules.		0.7		W/VA
Vibration	MIL-STD-810D, Method 514.3, Category I, Proc I			6	GRMS
Shock	MIL-STD-810D, Method 516.3, Proc II, IV, VI			20	GPK
Operating Temp.	At 100% Load Derate to 50% at 70˚C	0		50 70	˚C
Storage Temp.		-40		85	˚C
Altitude	Operating (Consult factory for operation above 10,000 feet)			10,000	Feet
	Non-operating			50,000	Feet
Relative Humidity	Non-condensing			95	%
Acoustical Noise	“A” weighted, anechoic at 1 meter			50	dB
Cooling	Internal Fan	80			CFM

*Metric mounting chassis meet all specifications of non-metric models.

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RPM5 / RMM5*

INPUT

PARAMETER	CONDITIONS	MIN.	NOM.	MAX.	UNITS
Input Voltage	AC Input Three Phase with Ground Phase to Phase DC Input	180 250	230 300	264 350	VAC VDC
Input Current	180 VAC 208 VAC 220 VAC 250 VDC			23 20 19 23	 ARMS ADC
Inrush Surge Current	Vin = 264 VAC (one cycle)			38	APK
Input Frequency	With AC Input	47		63	Hz
Hold-up Time	After last AC line peak 208 VAC 220 VAC	 20 25			 mS
Input Power Fail Warning	Logic signal before regulation dropout due to loss of input power	5			mS
Overtemperature Shutdown	System shutdown due to excessive internal temperature	70	80		°C
Thermal Warning	Advanced warning before shutdown	10			mS

SAFETY AND EMI

Agency Approvals	UL1950 CSA 22.2 No. 950 EN60950 (TÜV)				
Dielectric Withstand Voltage	Input to Output Input to Chassis Output to Chassis	4300 2300 300			VDC
Insulation Resistance	Input to Output Input to Chassis Output to Chassis	10 10 2			Meg Ω
Leakage Current	Per UL1950 and CSA 22.2 No. 950 Per EN60950			1.5 2.5	mA
Electromagnetic Interference	FCC CFR title 47 Part 15, Sub-Part B Conducted EN55022/CISPR 22, Conducted			Level A	

GENERAL

Output Power	Full Load, 230 VAC			4000	Watts
Efficiency	Full Load, 230 VAC		75		%
Power Factor	> 2000 watts @ 60 Hz, > 3000 watts @ 50 Hz		0.9		W/VA
Vibration	Random vibration from 10Hz to 2 KHz, (3 axis)			6	GRMS
Shock	Operating, peak acceleration			20	GPK
Operating Temp.	At 100% Load Derate linearly above 50°C to 50%	0		50 70	˚C
Storage Temp.		–40		85	˚C
Altitude	Operating Non-operating			10,000 50,000	Feet
Relative Humidity	Non-condensing			95	%
Acoustical Noise	“A” weighted at 1 meter			60	dB
Cooling	Static pressure through system closure			0.05	In of H_20

*Metric mounting chassis meet all specifications of non-metric models.

For the Most Up-To-Date Information

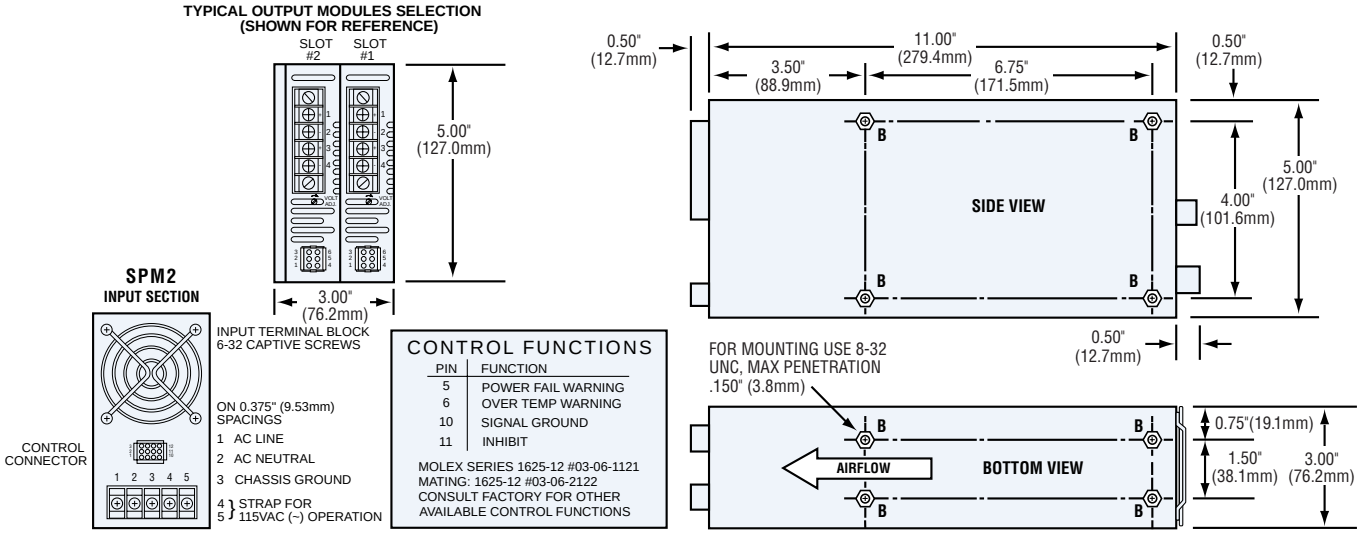
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SPM2 / SMM2* SPM3 / SMM3*

MODEL SPM2 OVERALL SIZE: 5.00" x 3.00" x 11.00" (127.0mm x 76.2mm x 279.4mm) WEIGHT: 8.0 LBS (3.60 kg)

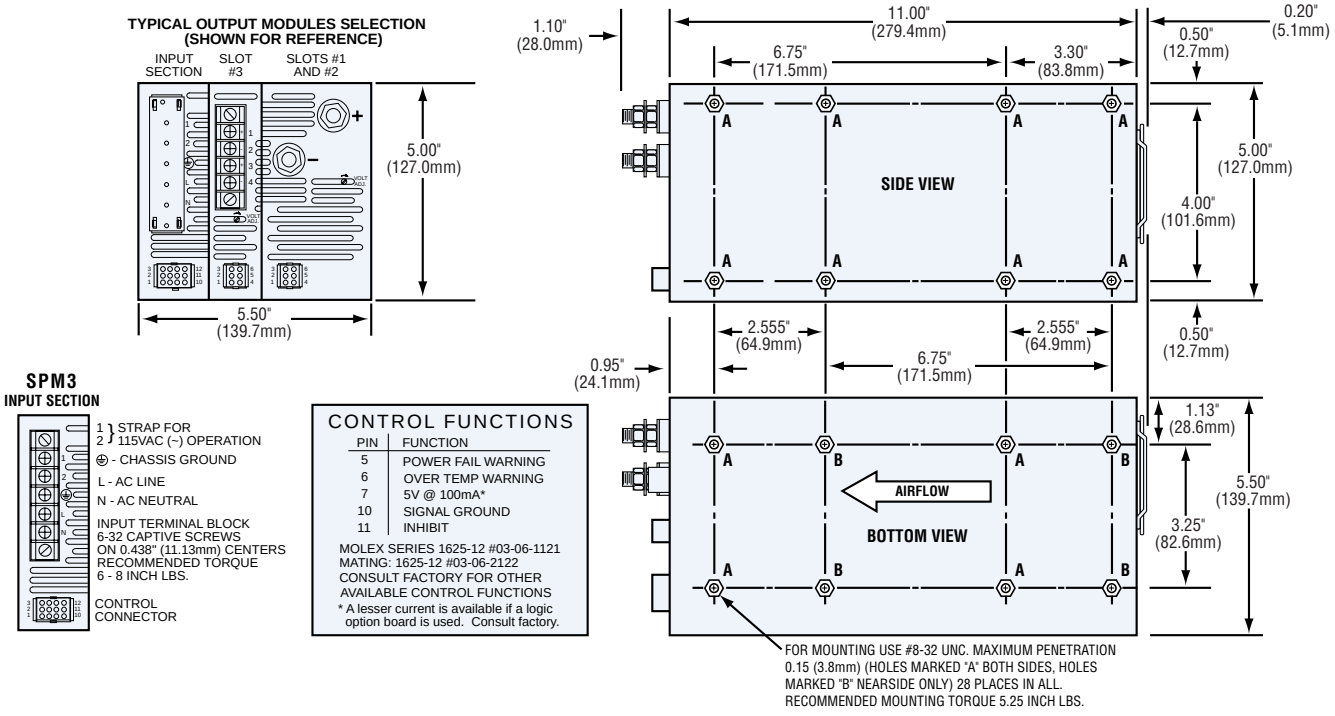


CONTROL FUNCTIONS

PIN	FUNCTION
5	POWER FAIL WARNING
6	OVER TEMP WARNING
10	SIGNAL GROUND
11	INHIBIT

MOLEX SERIES 1625-12 #03-06-1121
MATING: 1625-12 #03-06-2122
CONSULT FACTORY FOR OTHER
AVAILABLE CONTROL FUNCTIONS

MODEL SPM3 OVERALL SIZE: 5.00" x 5.50" x 11.00" (127.0mm x 139.7mm x 279.4mm) WEIGHT: 10.0 LBS (4.50 kg)

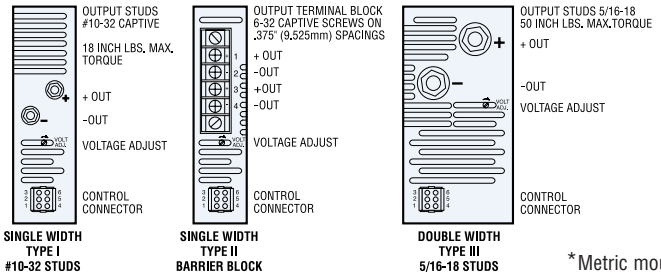


CONTROL FUNCTIONS

PIN	FUNCTION
5	POWER FAIL WARNING
6	OVER TEMP WARNING
7	5V @ 100mA*
10	SIGNAL GROUND
11	INHIBIT

MOLEX SERIES 1625-12 #03-06-1121
MATING: 1625-12 #03-06-2122
CONSULT FACTORY FOR OTHER
AVAILABLE CONTROL FUNCTIONS
* A lesser current is available if a logic option board is used. Consult factory.

MODEL SPM2 & SPM3 OUTPUT MODULES—CONFIGURATIONS AND INTERFACE SIGNALS



CONTROL FUNCTIONS

PIN	FUNCTION
1	+SENSE
2	MARGIN/REMOTE VOLTAGE ADJUST
3	OUTPUT GOOD SIGNAL
4	-SENSE & LOGIC GROUND
5	CURRENT SHARE CONTROL
6	INHIBIT

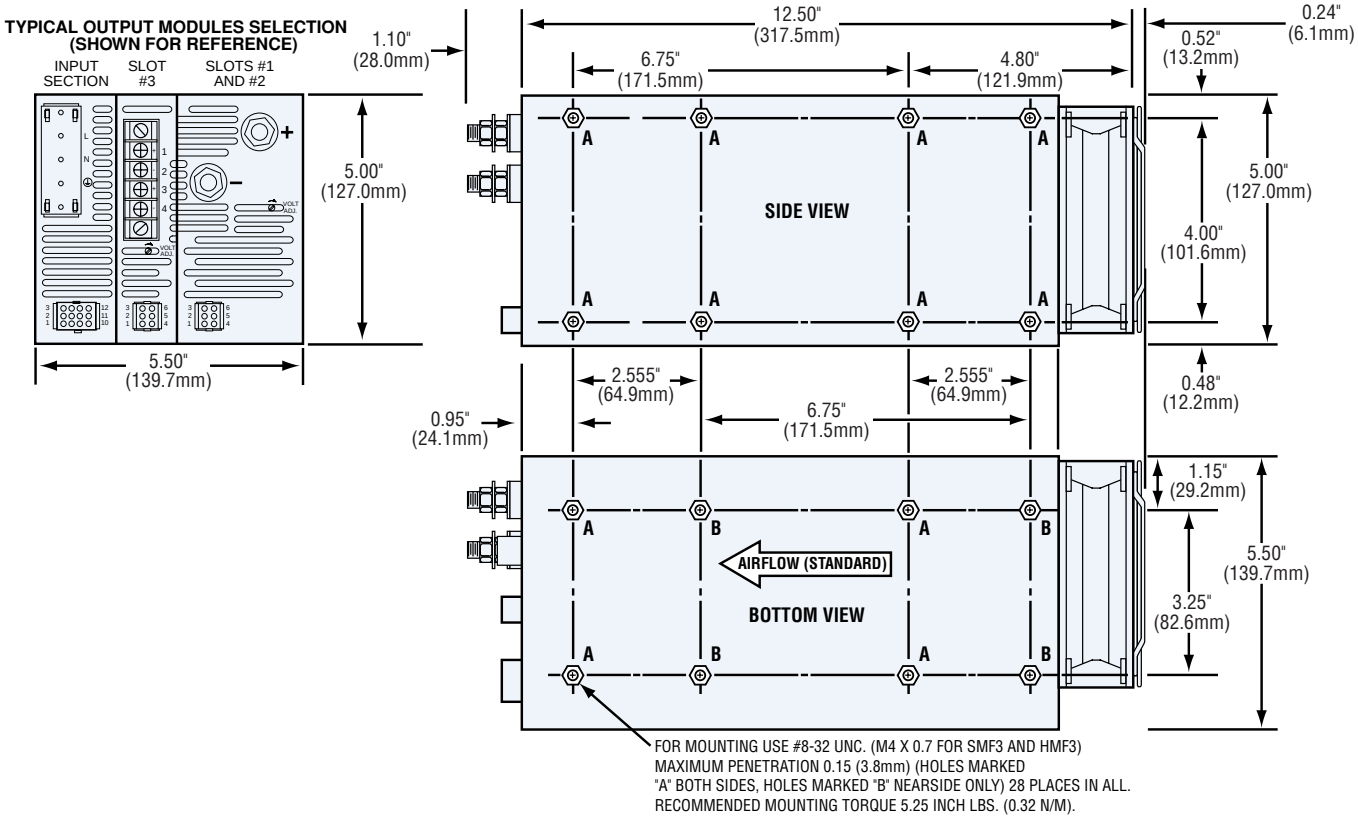
MOLEX SERIES 1625-6 #03-06-1061
MATING: 1625-6 #03-06-2061
CONSULT FACTORY FOR OTHER
AVAILABLE CONTROL FUNCTIONS

*Metric mounting chassis meet all specifications of non-metric models.

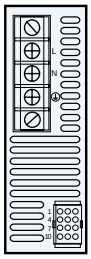
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SPF3 / SMF3* HPF3 / HMF3*

OVERALL SIZE: 12.50" x 5.50" x 5.00" (317.5mm x 139.7mm x 127.0mm)
WEIGHT: 12.5 LBS (5.70 kg)



SPF3/SMF3
HPF3/HMF3
INPUT SECTION



L - AC LINE
N - AC NEUTRAL
⏚ - CHASSIS GROUND

INPUT TERMINAL BLOCK
6-32 CAPTIVE SCREWS
ON 0.438" (11.13mm) CENTERS
RECOMMENDED TORQUE
6 - 8 INCH LBS.

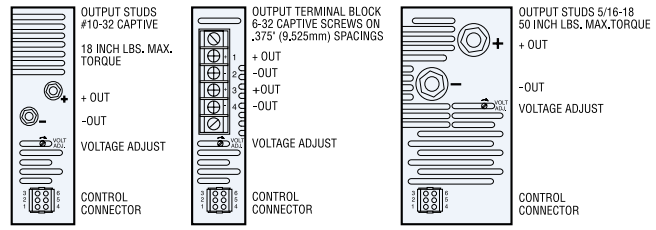
CONTROL
CONNECTOR

CONTROL FUNCTIONS

PIN	FUNCTION
5	POWER FAIL WARNING
6	OVER TEMP WARNING
7	5V @ 100mA*
10	SIGNAL GROUND
11	INHIBIT

MOLEX SERIES 1625-12 #03-06-1121
MATING: 1625-12 #03-06-2122
CONSULT FACTORY FOR OTHER
AVAILABLE CONTROL FUNCTIONS
* A lesser current is available if a logic option board is used. Consult factory.

OUTPUT MODULES—CONFIGURATIONS AND INTERFACE SIGNALS



CONTROL FUNCTIONS

PIN	FUNCTION
1	+SENSE
2	MARGIN/REMOTE VOLTAGE ADJUST
3	OUTPUT GOOD SIGNAL
4	-SENSE & LOGIC GROUND
5	CURRENT SHARE CONTROL
6	INHIBIT

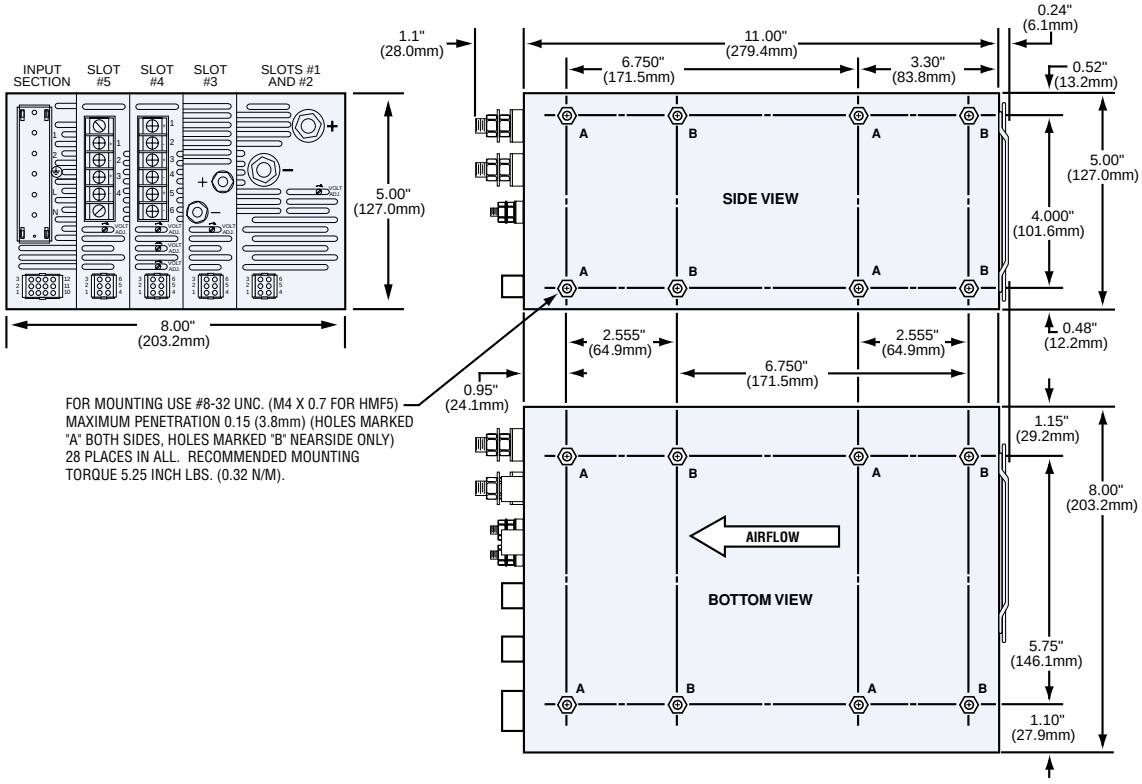
MOLEX SERIES 1625-6 #03-06-1061
MATING: 1625-6 #03-06-2061
CONSULT FACTORY FOR OTHER
AVAILABLE CONTROL FUNCTIONS

*Metric mounting chassis meet all specifications of non-metric models.

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SPM5 / SMM5* HPF5 / HMF5* HPM5 / HMM5*

OVERALL SIZE: 11.00" x 8.00" x 5.00" (279.4mm x 203.2mm x 127.0mm)
WEIGHT: 15.0 LBS (6.75 kg)



SPM5/HPM5
INPUT SECTION



1 } STRAP FOR
2 } 115VAC (~) OPERATION

⏚ - CHASSIS GROUND

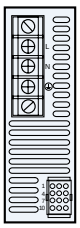
L - AC LINE

N - AC NEUTRAL

INPUT TERMINAL BLOCK
6-32 CAPTIVE SCREWS
ON 0.438" (11.13mm) CENTERS
RECOMMENDED TORQUE
6 - 8 INCH LBS.

CONTROL CONNECTOR

HPF5/HMF5
INPUT SECTION



L - AC LINE

N - AC NEUTRAL

⏚ - CHASSIS GROUND

INPUT TERMINAL BLOCK
6-32 CAPTIVE SCREWS
ON 0.438" (11.13mm) CENTERS
RECOMMENDED TORQUE
6 - 8 INCH LBS.

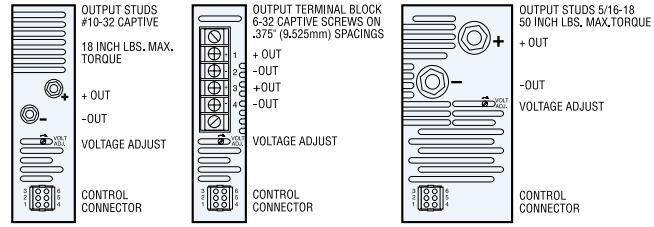
CONTROL CONNECTOR

CONTROL FUNCTIONS

PIN	FUNCTION
5	POWER FAIL WARNING
6	OVER TEMP WARNING
7	5V @ 100mA*
10	SIGNAL GROUND
11	INHIBIT

MOLEX SERIES 1625-12 #03-06-1121
MATING: 1625-12 #03-06-2122
CONSULT FACTORY FOR OTHER AVAILABLE CONTROL FUNCTIONS
* A lesser current is available if a logic option board is used. Consult factory.

OUTPUT MODULES—CONFIGURATIONS AND INTERFACE SIGNALS



CONTROL FUNCTIONS

PIN	FUNCTION
1	+SENSE
2	MARGIN/REMOTE VOLTAGE ADJUST
3	OUTPUT GOOD SIGNAL
4	-SENSE & LOGIC GROUND
5	CURRENT SHARE CONTROL
6	INHIBIT

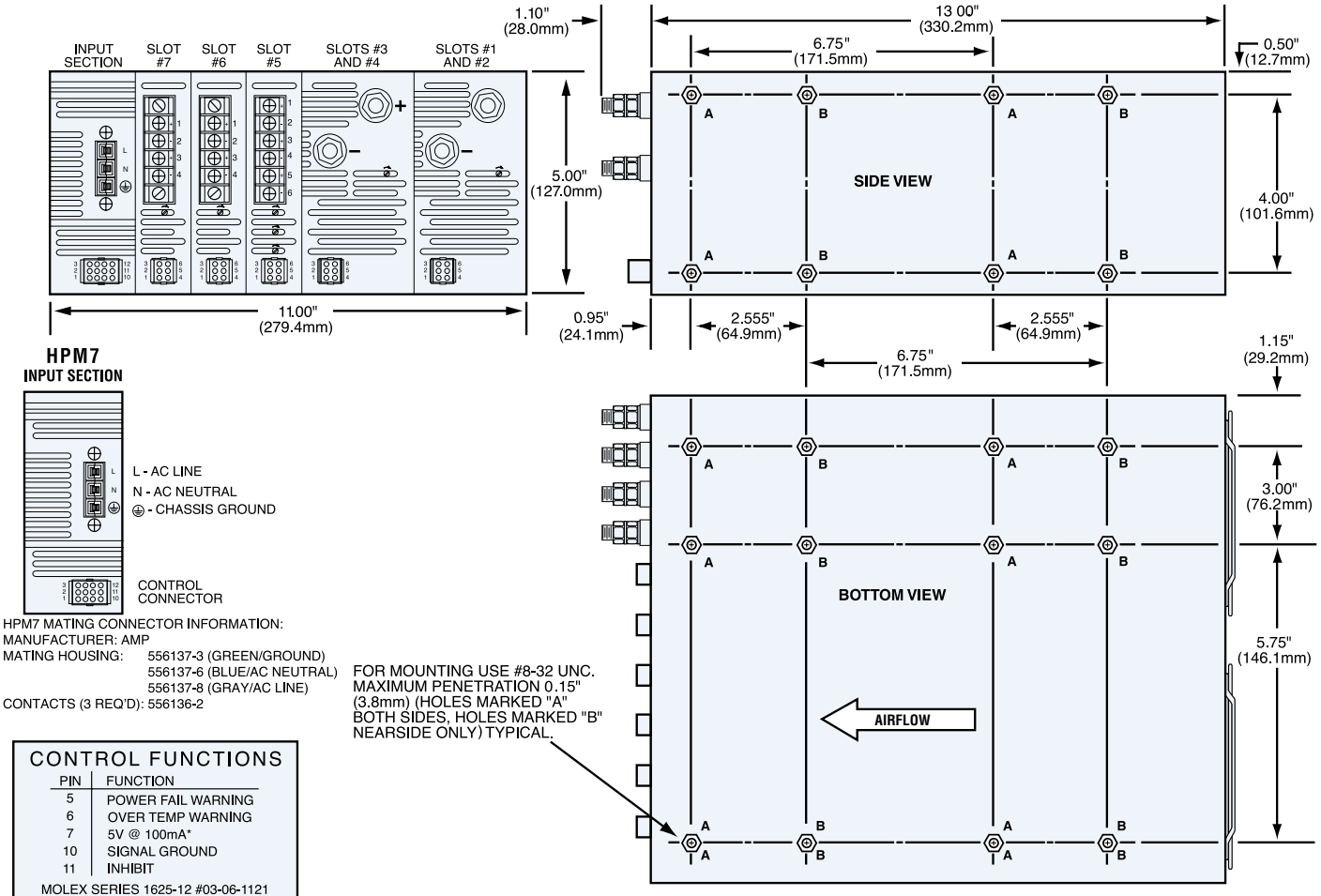
MOLEX SERIES 1625-6 #03-06-1061
MATING: 1625-6 #03-06-2061
CONSULT FACTORY FOR OTHER AVAILABLE CONTROL FUNCTIONS

*Metric mounting chassis meet all specifications of non-metric models.

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HPM7 / HMM7*

OVERALL SIZE: 13.00" x 11.00" x 5.00" (330.2mm x 279.4mm x 127.0mm)
WEIGHT: 21.0 LBS (9.60 kg)



HPM7
INPUT SECTION

L - AC LINE
N - AC NEUTRAL
⏚ - CHASSIS GROUND

CONTROL CONNECTOR

HPM7 MATING CONNECTOR INFORMATION:
MANUFACTURER: AMP
MATING HOUSING: 556137-3 (GREEN/GROUND)
556137-6 (BLUE/AC NEUTRAL)
556137-8 (GRAY/AC LINE)
CONTACTS (3 REQ'D): 556136-2

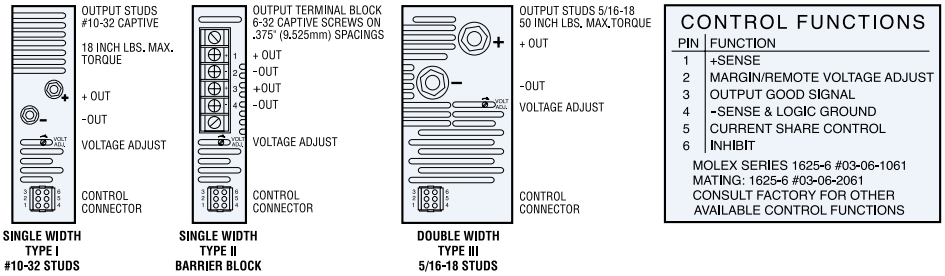
FOR MOUNTING USE #8-32 UNC. MAXIMUM PENETRATION 0.15" (3.8mm) (HOLES MARKED "A" BOTH SIDES, HOLES MARKED "B" NEARSIDE ONLY) TYPICAL.

CONTROL FUNCTIONS

PIN	FUNCTION
5	POWER FAIL WARNING
6	OVER TEMP WARNING
7	5V @ 100mA*
10	SIGNAL GROUND
11	INHIBIT

MOLEX SERIES 1625-12 #03-06-1121
MATING: 1625-12 #03-06-2122
CONSULT FACTORY FOR OTHER AVAILABLE CONTROL FUNCTIONS
* A lesser current is available if a logic option board is used. Consult factory.

OUTPUT MODULES—CONFIGURATIONS AND INTERFACE SIGNALS



CONTROL FUNCTIONS

PIN	FUNCTION
1	+SENSE
2	MARGIN/REMOTE VOLTAGE ADJUST
3	OUTPUT GOOD SIGNAL
4	-SENSE & LOGIC GROUND
5	CURRENT SHARE CONTROL
6	INHIBIT

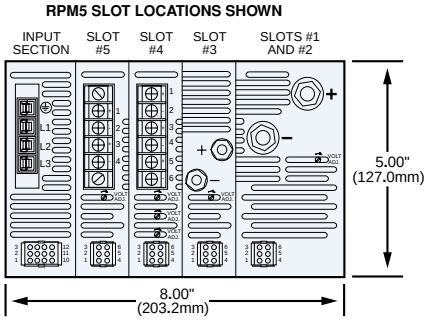
MOLEX SERIES 1625-6 #03-06-1061
MATING: 1625-6 #03-06-2061
CONSULT FACTORY FOR OTHER AVAILABLE CONTROL FUNCTIONS

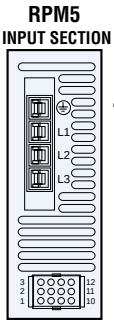
*Metric mounting chassis meet all specifications of non-metric models.

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RPM5 / RMM5*

OVERALL SIZE: 15.00" x 8.00" x 5.00" (381.0mm x 203.2mm x 127.0mm)
WEIGHT: 21.0 LBS (9.60 kg)

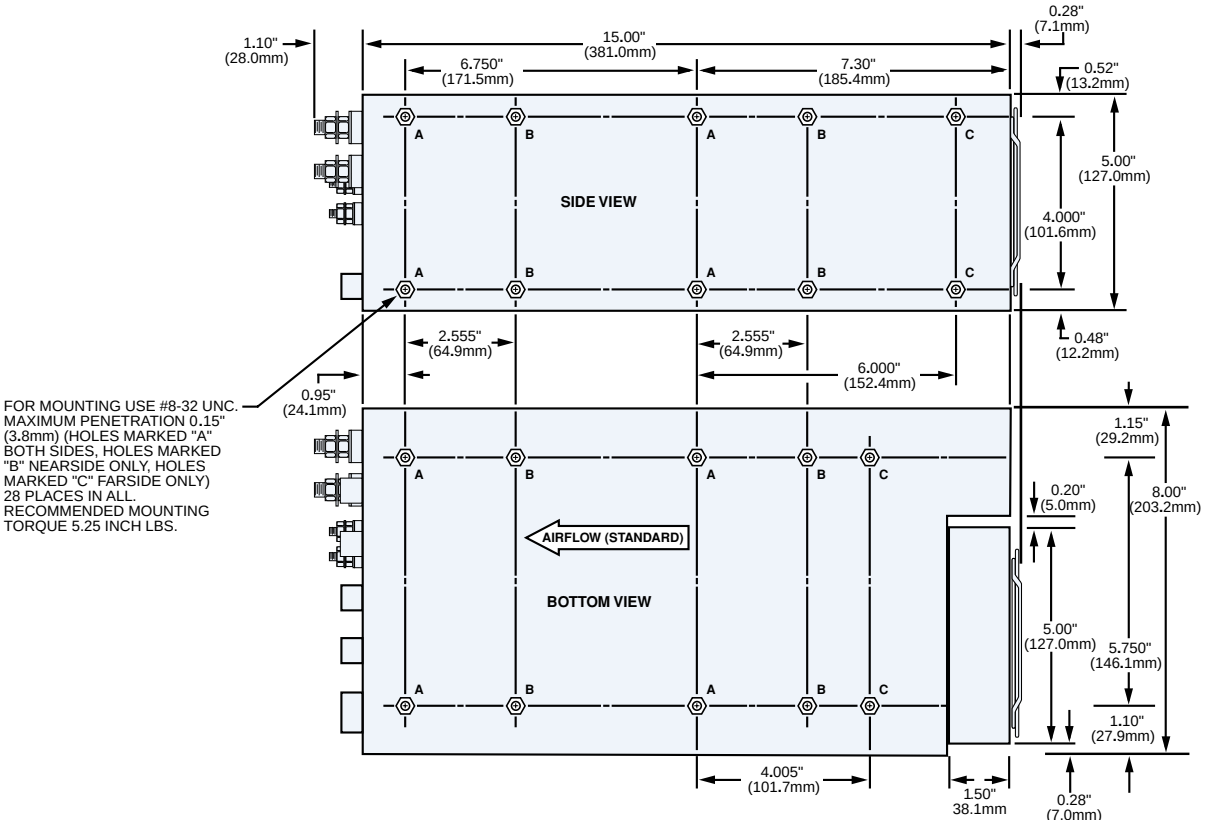




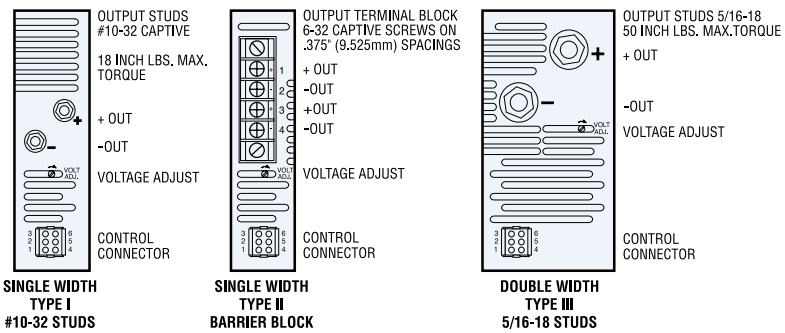
CONTROL FUNCTIONS

PIN	FUNCTION
5	POWER FAIL WARNING
6	OVER TEMP WARNING
7	5V @ 100mA*
10	SIGNAL GROUND
11	INHIBIT

MOLEX SERIES 1625-12 #03-06-1121
MATING: 1625-12 #03-06-2122
CONSULT FACTORY FOR OTHER AVAILABLE CONTROL FUNCTIONS
* A lesser current is available if a logic option board is used. Consult factory.



OUTPUT MODULES—CONFIGURATIONS AND INTERFACE SIGNALS



CONTROL FUNCTIONS

PIN	FUNCTION
1	+SENSE
2	MARGIN/REMOTE VOLTAGE ADJUST
3	OUTPUT GOOD SIGNAL
4	-SENSE & LOGIC GROUND
5	CURRENT SHARE CONTROL
6	INHIBIT

MOLEX SERIES 1625-6 #03-06-1061
MATING: 1625-6 #03-06-2061
CONSULT FACTORY FOR OTHER AVAILABLE CONTROL FUNCTIONS

*Metric mounting chassis meet all specifications of non-metric models.

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