

**AC/DC Power Supply**  
**1 phase or 3phase AC input**  
**6 Main Outputs, 3,600W**  
**Low-Profile 1.75" (1U)**



Drawing for reference only. Actual front panel details may be different.

All specifications are at nominal input, full load, 25°C, unless otherwise noted.

**Input**

Input Configuration	1-phase	3-phase
Input Voltage	85-264VAC L-L/N	85-264VAC L-L
Input Frequency	47-440Hz	47-440Hz
Inrush Current, 264 VAC peak, cold start.	<60 A	<60 A
Power Factor (minimum); 47-63Hz	0.95	0.95 Phases not balanced unless all channels are configured for load sharing.
Input Connector Maximum Current per Pin	25A	25A

**Total Output Power**

Single Phase at 115VAC	2,300W
Single Phase at 230VAC	3,600W
3 Phase delta at 200VAC Line-Line	3,600W

**Output (Each Output, typical)**

Output Voltage (Factory configurable)	1.8V to 60 V
Output Voltage Setpoint (50% load)	±1.2%
Load Regulation, No load to full load (max.)	±0.25%
Line Regulation, Low Line to High Line (max.)	±0.2%
Remote Sense	Yes
Output Trim	Yes
Output Ripple and Noise	1% (See Vicor module datasheet for details.)
Maximum Output Power	600W
Maximum Output Current	80A
Maximum Output Current Pin Rating	Molex: 49A per pin Screw terminal: 30A per terminal

**Safety**

Agency Approvals (Pending, Single-Phase Operation)	cTUVus, CE
Safety Standard Compliance	EN60950
Isolation, Primary-to-Secondary	3,000 Vrms
Isolation, Primary-Earth	1,500 Vrms
Isolation, Secondary-Earth	250 Vrms

**EMI and EMC**

Conducted Noise	EN55022 Class A (150kHz-30MHz)
Input Transient	EN61000-4-5, 2kV Common Mode, 1kV Differential Mode

### Input Connector

Positronic PLB3W3M4BN0A1/AA	3 Phase Configuration	1 Phase Configuration
PIN#	Description	Description
1 (Bottom)	Line 1 input	Line/Neutral
2 (Top)	Line 2 input	Line/Neutral
3 (Middle)	Line 3 input	N/C

Chassis Screw	Earth Connection to Power Supply Chassis
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### Output Connections Layout

Channel	C				B				A							
Output	2		1		2		1		2		1					
Signal	-	-	+	+	-	-	+	+	-	-	+	+	-	-	+	+

**I/O Connector (Each Channel):** Molex 43045-1600 Microfit 16 Pin, right angle Pin header

Signal	Sense 2 (+)	Trim 2	Sense 2 (-)	Parallel Bus 1 RTN	Parallel Bus 1	Pgood 2	Inhibit*	Secondary 12V Vcc
Pin#	8	7	6	5	4	3	2	1

Pin#	16	15	14	13	12	11	10	9
Signal	Sense 1 (-)	Trim 1	Sense 1 (+)	Parallel Bus 2 RTN	Parallel Bus 2	Pgood 1	PFW*	Pgood 2 RTN

**Front Panel Pgood Indicators:** One Green LED for each output

LED is ON if the corresponding output voltage is: (a) present if output is populated or (b) zero if output is not populated.

<b>Environmental</b>	
Minimum Operating Temperature	-20°C
Maximum Operating Temperature	+50°C
Storage Temperature Range	-40°C to 85°C
Relative Humidity	5% -95% non-condensing

<b>Mechanical</b>	
Dimensions (*)	17"W x 18.55"D x 1.75"H
Mounting Options (*)	Mounting Brackets 19" Front Panel
Cooling	Internal Fans, two per channel
Weight (Typical, depends on configuration)	14 lb. (6.4 kg)
(*) Contact factory or visit <a href="http://www.npi-inc.com">www.npi-inc.com</a> for details.	

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