

AC/DC Power Supply
2 Outputs
1,000W
Conduction Cooled



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

Input

Input Voltage (Nominal)	115/230Vac
Input Voltage Range	90-264Vac, 250-374Vdc
Input Frequency	47-63 Hz
Inrush Current (264 VAC peak line, cold start.)	<40 A
Input Fuse	Not installed
Power Factor (minimum)	0.95
Input Harmonics	EN 61000-3-2 Compliant
Line Dropout Ride-Through	8 ms at 115Vac, 16 ms at 230Vac, 4 ms Power Fail Warning

Output

Output	A	B
Maximum Output Current (Connector Limit)	80A	80A
Output Voltage (Factory configurable)	1.8 to 52 V	1.8 to 52 V
Output Voltage Setpoint (50% load)	±1.2%	±1.2%
Load Regulation, No load to full load (max.)	±0.2%	±0.2%
Line Regulation, Low Line to High Line (max.)	±0.2%	±0.2%
Maximum Output Power	600W	600W
Remote Sense	Yes	Yes
Output Ripple and Noise	See individual Vicor modules specifications	
Maximum Total Output Power	800W at 115Vac or 1,000W at 230Vac	


Environmental

Operating Ambient Temperature Range	-25°C to 70°C
Operating Baseplate Temperature Range	-30°C to 80°C
Storage Temperature Range	-40°C to 70°C

Safety

Agency Approvals	cTUVus, CE
Safety Standard Compliance	EN 60950
Isolation, Primary-to-Secondary	3,000 Vrms
Isolation, Primary-Earth	1,500 Vrms
Isolation, Secondary-Earth	250 Vrms

Mechanical	
Dimensions (not including output bus bars)	13.5" x 6.5" x 2.0 "
Cooling	Conduction Cooled to the Baseplate
Outline Drawing	Available on NPI website www.npi-inc.com
Weight (Typical, depends on configuration)	6.7 lb.

Input		
Pin	Signal Description	Details
1	L1	AC Line 1
2		Safety Ground
3	L2 / N	AC Line 2 or Neutral

Outputs A and B			
Pin	Signal Description	Details	
		Option -M	Option -B
1	-	Negative Terminal, 49A max	Negative Terminal, 1/4" hole, 100A max
2	-	Negative Terminal, 49A max	
3	+	Positive Terminal, 49A max	Positive Terminal, 1/4" hole, 100A max
4	+	Positive Terminal, 49A max	

Outputs A and B - Remote Sense Connector		
Pin	Signal Description	Details
1	+	Positive Sense Connection
2	-	Negative Sense Connection

I/O Connections			Note: All control signals are isolated; Input - 3,000 Vrms; Output - 250 Vrms; Chassis - 250 Vrms	
Pin	Signal Description	Details		
1	Output A Power Good	Open Collector, 60V/1mA, Active Low = Power Good		
2	Output B Power Good	Open Collector, 60V/1mA, Active Low = Power Good		
3	Not Connected	Reserved for future use.		
4	Output Inhibit or Enable	Option -N		Option -E
		Application of 5V/25mA signal inhibits all outputs. Optoisolator input with 200Ω series resistor.		Application of 5V/25mA signal enables all outputs. Optoisolator input with 200Ω series resistor.
5	AC Power Fail Warning	Open Collector, 60V/1mA, Active Low = Power Fail Warning		
6	I/O Control Signal Return	All I/O control signals on pins 1-7 are referenced to this pin.		

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