

DC/DC Power Supply
Up to 5 Outputs
1000W
Low-Profile 1.68"



Actual product may vary from this image.

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

Input

Nominal Input Voltage	24V	48V
Input Voltage Range	18-36V	36-75V
Internal Input Fuse	No internal fuse.	

Output ¹

Output #	A	B	C	D	E
Maximum Output Current (Connector Limit)	80A		18A	40A	
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 (24V Input)	400W		100 W		
Maximum Output Power (48V Input)	500W		150 W		
Remote Sense	Yes		No		
Output Ripple and Noise	See individual Vicor module specifications				
Enable/inhibit function will affect this output	Yes or No (Configurable for each output individually at the factory.)				

Environmental

Operating Temperature Range	-20°C to 70°C
Storage Temperature Range	-40°C to 70°C
Relative Humidity	5% -95% non-condensing

Mechanical

Dimensions	10.5" x 7" x 1.68"
Cooling	Internal Fans
Outline Drawing	Available on www.npi-inc.com
Weight (Typical, depends on configuration)	6.6 lb. (3 kg)

Maximum Output Power vs. Air Temperature

-20 to 60°C	60 to 70°C	70°C
1000 W	Derate 20W/°C	800 W

¹ Output voltage, current and power are limited to Vicor modules available.

Input Connector (Molex PN 42820-3212)		
Pin	Signal Description	Details
1	+ IN	Positive Input Terminal
2	Chassis	Chassis Connection
3	- IN	Negative Input Terminal

Outputs A and B				
Pin	Signal Description	Option -M	Option -B	Option -R
1	+	Positive Terminal, 49A max	Positive Terminal 1/4" hole, 100A max	Positive Terminal #8 tapped hole 5/16" deep, 100A max
2	+	Positive Terminal, 49A max		
3	-	Negative Terminal, 49A max	Negative Terminal 1/4" hole, 100A max	Negative Terminal #8 tapped hole 5/16" deep, 100A max
4	-	Negative Terminal, 49A max		

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

Output C		
Pin	Signal Description	Details
1	-	Negative Terminal, 18A max
2	+	Positive Terminal, 18A max

Outputs D and E		
Pin	Signal Description	Details
1	+	Positive Terminal, 20A max
2	-	Negative Terminal, 20A max

I/O Connections			Note: All control signals are isolated; Input - 3,000 Vrms; Output - 250 Vrms; Chassis - 250 Vrms	
Pin	Signal Description	Details		
		Option -N	Option -E	
1	Output Inhibit or Enable	Application of 5V to 24V signal inhibits all controlled outputs. Optoisolator input with 4.5kΩ series resistor.	Application of 5V to 24V signal enables all controlled outputs. Optoisolator input with 4.5kΩ series resistor.	
2	Not Connected	Reserved for future use.		
3	Output A Power Good	Open Collector, 60V/1mA, Active Low = Power Good		
4	Output B Power Good	Open Collector, 60V/1mA, Active Low = Power Good		
5	Output C Power Good	Open Collector, 60V/1mA, Active Low = Power Good		
6	Output D Power Good	Open Collector, 60V/1mA, Active Low = Power Good		
7	Output E Power Good	Open Collector, 60V/1mA, Active Low = Power Good		
8	I/O Control Signal Return	All I/O control signals on pins 1-7 are referenced to this pin.		

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