

**DC/DC Power Supply Module
Single Output
1U, 19" Rack Compatible
N+1 Redundant Hot-Swap**



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

Model	24V	48V
Input Voltage Range	18-36V	36-72V
Maximum Input Current (Input Connector Limit is 45A)	45A	35A
Maximum Output Power (Derate to maintain input current below 45A)	750W	950W
Maximum Output Current (Connector Rating)	60A	60A
Output Voltage (Factory configurable and user trimmable)	3 to 52 V	
Output Voltage Setpoint (50% load)	±1.2%	
Load Regulation, No load to full load (max)	2%	
Line Regulation, Low Line to High Line (max)	±0.2%	
Remote Sense	Yes	
Output Trim	+/-10%	
Output Ripple and Noise	See individual Vicor module specifications.	
"OR" Diode	Internal	
Load Sharing	Yes, +/- 10% of average load current	
Hot-Swap	Yes	

Environmental	
Operating Temperature Range	-25°C to 55°C
Storage Temperature Range	-40°C to 85°C
Internal Over-Temperature Shutdown	95°C on the internal heatsink, non-latching 100°C internal Vicor module shutdown, non-latching
Relative Humidity	5% - 95% non-condensing

Safety	
Safety Standard	EN 60950
Isolation, Primary-to-Secondary	1000Vrms
Isolation, Primary-Earth	1000Vrms
Isolation, Secondary-Earth	50Vrms

Mechanical	
Dimensions (Approximate. See Mechanical Drawing for details.)	13.05" x 4.14" x 1.6"

Indicators and Other Functions	
LED Indicator	Output OK - Red/Green front panel LED

Connector	Positronic PCB24W9M400A1	
PIN#	Signal	Description
01	Vout +	Positive Output Terminal
02	Vout +	Positive Output Terminal
03	Vout -	Negative Output Terminal
04	Vout +	Positive Output Terminal
05	Vout -	Negative Output Terminal
06	Vout -	Negative Output Terminal
07	Hot Plug Enable *	Hot Plug control pin - Short to Output return on the backplane
08	Reserved	
09	Reserved	
10	Reserved	
11	Reserved	
12	Inhibit	Drive optocoupler with external 5V source (internal 221 ohm resistor) to inhibit
13	Reserved	
14	Reserved	
15	Parallel Bus Return	Connect to force current sharing between power supplies. Current sharing signal is a high speed pulse; current sharing bus should have low inductance to prevent signal distortion.
16	Parallel Bus	
17	Pgood Rtn	Isolated optocoupler interface - open collector output saturated indicates output is good (5mA sink current)
18	Pgood*	
19	Trim	Trim output down with resistor to output return.
20	Remote Sense -	Output remote sense - connect to common point on backplane for proper current sharing
21	Remote Sense +	
22	Chassis	
23	Vin -	Negative Input Terminal
24	Vin +	Positive Input Terminal

NPI - Power Solutions with Integrity

Information furnished by NPI is believed to be accurate and reliable. However, no responsibility is assumed by NPI or Vicor for its use. No license is granted by implication or otherwise under any patent or patent rights of NPI or Vicor. NPI products are not designed to be used in applications, such as life support systems, wherein a failure or malfunction could result in injury or death. All sales are subject to NPI's Terms and Conditions of Sale, which are available upon request.

Specifications are subject to change without notice.

Northwest Power Integrations, Inc. ♦ 4211 SE International Way, Suite F ♦ Milwaukie, OR, USA
Tel: 503-652-6161 ♦ Fax: 503-652-6868 ♦ www.npi-inc.com