

**Power Supply**  
**Dual Input: AC and DC**  
**1 or 2 Outputs**  
**Up to 1000W**  
**Low-Profile 1.68"**



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

**DC Input**

Nominal Input Voltage Options	24V	28V	48V	72V	110V	150V
Input Voltage Range	18-36V	10-36V	36-75V	43-110V	66-154V	100-200V
Output Power	Based on specific module used					

**AC Input**

Input Voltage (nominal)	115/230Vac
Input Voltage Range	90-264Vac
Input Frequency	47-63 Hz
Inrush Current (cold start.)	<20 A at 115Vac, <40A at 230Vac
Input Fuse (internal)	20A
Power Factor (minimum)	0.95
Input Harmonics	EN 61000-3-2 Compliant
Line dropout	SEMI F47 Compliant when operated at 180-264Vac
Output Power	900W max. See derating curve

**Output (\*)**

	<b>A</b>	<b>B</b>
Maximum Output Current (Connector Limit)	49A	49A
Output Voltage (Factory configurable)	1.8 to 52 V	1.8 to 52 V
Module Size Options (AC side)	Maxi or Mini	Mini
Module Size Options (DC side)	Maxi or Mini	Maxi or Mini
Output Voltage Set point (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	Depending on Vo and Vin	Depending on Vo and Vin
Remote Sense	Yes	Yes
Output Ripple and Noise	See individual Vicor module specifications	See individual Vicor module specifications

(\*) Outputs A and B can be connected in parallel (with current sharing) or in series.

**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 <a href="http://www.npi-inc.com">www.npi-inc.com</a>
Weight (Typical, depends on configuration)	6.6 lb. (3 kg)

AC Input Connector		
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	Details
1	+	Output A Positive Terminal, 49A max
2	-	Output A Negative Terminal, 49A max
3	+	Output B Positive Terminal, 49A max
4	-	Output B Negative Terminal, 49A max

Trim/Remote Sense Connections for Channels A and B (AMP 102617-1) (Remote sense is active only if Maxi or Mini size module is installed.)		
Pin	Signal Description	Details
1	+Sense A	Positive Sense Connection (Internally connected to positive output through 50 $\Omega$ resistor fused by 0.17A Polyfuse)
2	Trim A	Connect this pin with a resistor to Pin 1 for trim up, or to Pin 3 for trim down.
3	- Sense A	Negative Sense Connection (Internally connected to negative output through 50 $\Omega$ resistor)
4	+Sense B	Positive Sense Connection (Internally connected to positive output through 50 $\Omega$ resistor fused by 0.17A Polyfuse)
5	Trim B	Connect this pin with a resistor to Pin 1 for trim up, or to Pin 3 for trim down.
6	- Sense B	Negative Sense Connection (Internally connected to negative output through 50 $\Omega$ resistor)

I/O Connections		Note: All control signals are isolated; Input - 3,000 Vrms; Output - 250 Vrms; Chassis - 250 Vrms
Pin	Signal Description	Details
1	Inhibit DC-B	Apply 5 to 24V to inhibit Output B running from DC input
2	Inhibit DC-A	Apply 5 to 24V to inhibit Output A running from DC input
3	Inhibit AC-A	Apply 5 to 24V to inhibit Output A running from AC input
4	Inhibit AC-B	Apply 5 to 24V to inhibit Output B running from AC input
5		Not Connected
6	Control Return	Reference for all signals on I/O connector.

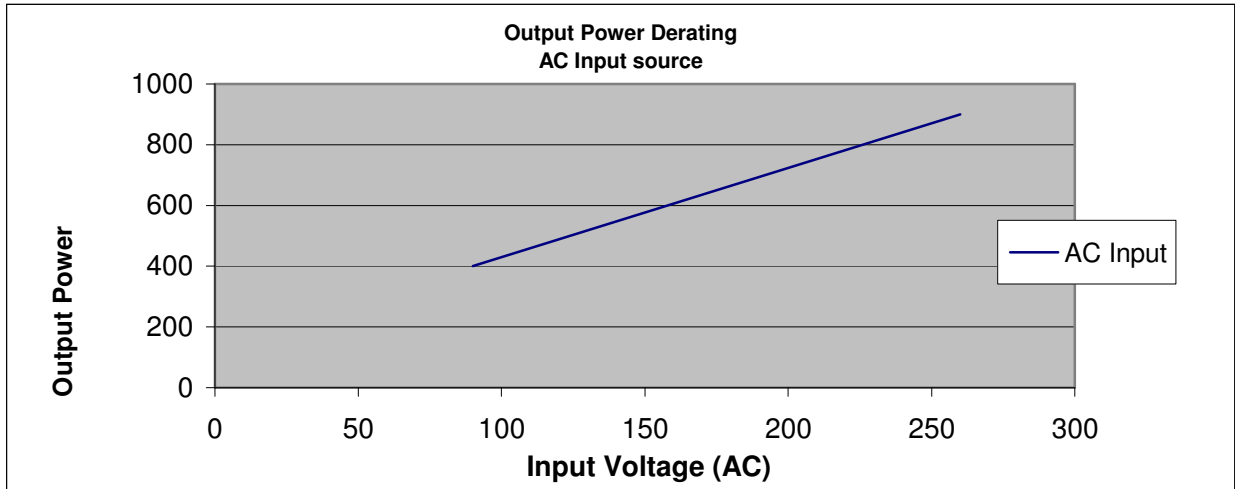
Safety	
Agency Approvals (Pending)	cTUVus, CE
Safety Standard Compliance	EN 60950
Isolation, Primary-to-Secondary	3000Vrms
Isolation, Primary-Earth	1500Vrms
Isolation, Secondary-Earth	250Vrms

## EMI and EMC

Conducted Noise – AC Input

EN55022 Class A (150kHz-30MHz)

## Output Power Derating



Contact factory for details.

## ***NPI –Vicor Power Solutions***

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](http://www.npi-inc.com)