

**AC/DC Power Supply
4 Outputs, 1000W
Low-Profile 1.75" (1U)
SEMI F47 Compliant**



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

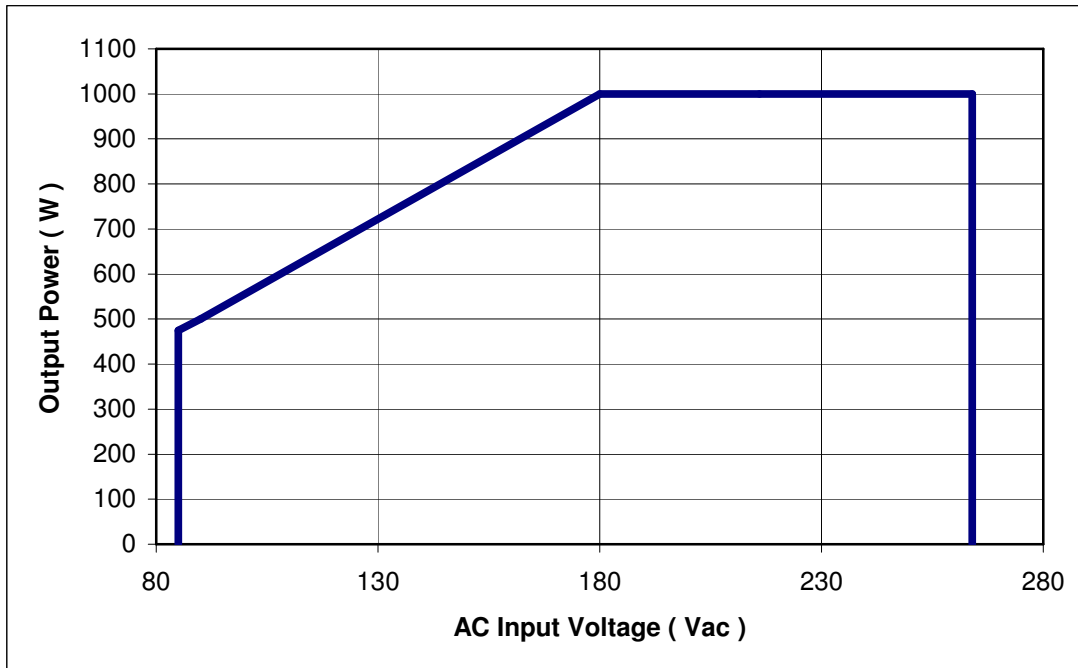
Input	
Input Voltage (nominal)	115/230Vac
Input Voltage Range	90-264Vac
Input Frequency	47-63 Hz
Inrush Current (cold start.)	<20 A at 115Vac, <40A at 230Vac
Input Fuse (internal)	20A
Power Factor (minimum)	0.95
Input Harmonics	EN 61000-3-2 Compliant
Line dropout	SEMI F47 Compliant when operated at 180-264Vac

Output				
Output	A	B	C	D
Maximum Output Current (Connector Limit)	80A	80A	40A	
Output Voltage (Factory configurable)	1.8 to 52 V	1.8 to 52 V	1.8 to 52 V	
Module Size	Maxi	Mini	Micro	Micro
Output Voltage Setpoint (50% load)	±1.2%	±1.2%	±1.2%	±1.2%
Load Regulation, No load to full load (max)	±0.2%	±0.2%	±0.5%	±0.5%
Line Regulation, Low Line to High Line (max)	±0.2%	±0.2%	±0.5%	±0.5%
Remote Sense	Yes	Yes	No	No
Output Trim	Yes	Yes	Yes	Yes
Output Ripple and Noise	See individual Vicor module specifications.			
Maximum Output Power (Individual output)	600W	300W	150W	150 W
Maximum Output Power (Total all outputs)	1000W, See output power derating chart on page 2.			

Environmental	
Operating Temperature Range (see output power derating on page 2)	-20°C to 50°C
Thermal Shutdown	100°C internal module shutdown, non-latching
Storage Temperature Range	-40°C to 70°C
Relative Humidity	5% -95% non-condensing

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

Output Power Derating



At 25°C. Output power may be further limited at higher ambient temperature. Contact factory for details.

EMI and EMC

Conducted Noise

EN55022 Class A (150kHz-30MHz)

Mechanical

Dimensions
(Approximate. See Mechanical Drawing for details.)

10.28" x 8.08" x 1.74"

Mounting Options (contact factory for details)

Universal Mounting Brackets
Short Front Panel or Full 19" Front Panel

Cooling

Internal Fans

Weight (Typical, depends on configuration)

5.5 lb. (2.5 kg)

Input Power Connections

Connector	Details	
IEC320	Standard pin configuration	
Optional Cord Retainer	Long Wire Bail NPI P/N 4340, Qualtek #730B-00/05	Short Wire Bail NPI P/N 4013, Qualtek #730B-00/00

Front Panel LEDs

One Red/Green LED for each main output

Color	Signal Description	Details
Green	Output OK	Corresponding output voltage is correct, i.e. sufficiently high if output is populated or zero if output is not populated.
Red	Output Not OK	Corresponding output voltage is too low.

Output Power Connections for Channels A and B				
Pin	Signal Description	Details		
		Molex Minifit Sr. Connector (Option -M) (Molex 42820-4212)	Straight Bus Bar (Option -B)	Right-Angle Bus Bar (Option -R)
1	+	Positive Terminal, 49A max	Positive Terminal, 1/4" hole, 100A max	Positive Terminal, Tapped 1/4-20 hole, 100A max
2	+	Positive Terminal, 49A max		
3	-	Negative Terminal, 49A max	Negative Terminal, 1/4" hole, 100A max	Negative Terminal, Tapped 1/4-20 hole, 100A max
4	-	Negative Terminal, 49A max		

Output Power Connections for Channels C and D (Molex 42820-4212)		
Pin	Signal Description	Details
1	+	Output D, Positive Terminal, 49A max
2	-	Output D, Negative Terminal, 49A max
3	+	Output C, Positive Terminal, 49A max
4	-	Output C, 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 B	Positive Sense Connection (Internally connected to positive output through 50 Ω resistor fused by 0.17A Polyfuse)
2	Trim B	Connect this pin with a resistor to Pin 1 for trim up, or to Pin 3 for trim down.
3	- Sense B	Negative Sense Connection (Internally connected to negative output through 50 Ω resistor)
4	+Sense A	Positive Sense Connection (Internally connected to positive output through 50 Ω resistor fused by 0.17A Polyfuse)
5	Trim A	Connect this pin with a resistor to Pin 1 for trim up, or to Pin 3 for trim down.
6	- Sense A	Negative Sense Connection (Internally connected to negative output through 50 Ω resistor)

I/O Connections (Molex 70555-0038)		Note: All control signals are isolated; Input - 3,000 Vrms; Output - 250 Vrms; Chassis - 250 Vrms
Pin	Signal Description	Details
1	12V Aux	12V/100mA Auxiliary Stand-By Output
2	Pgood	Open Collector, 40V/5mA, Active Low = Power Good
3	Inhibit	Connect to Pin 4 (Control Return) to inhibit all outputs, except 12V Aux.
4	Control Return	Reference for all signals on I/O connector. Return for 12V Aux.

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