

**AC/DC Power Supply**  
**6 Main Outputs, 1500W**  
**5V and 12/24V Auxiliary Outputs**  
**Low-Profile 1.75" (1U)**



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

**Input**

Input Voltage Range	85-264VAC or 250-374Vdc
Input Frequency	47-63 Hz (400Hz <sup>1</sup> )
Inrush Current (264 VAC peak line, cold start.)	<60 A
Input Fuse	20A (internal)
Power Factor (minimum)	0.95
Power Switch	Front or Rear Panel Mounted

**Output**

Output	A	B	C	D	E	F
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	<b>Maxi</b>	<b>Mini</b>	<b>Micro</b>	<b>Micro</b>		
Output Voltage Setpoint (50% load)	±1.2%	±1.2%	±1.2%	±1.2%		
Load Regulation, No load to full load (max.)	±0.25%	±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 (typ.) 20MHz BW	1%	1%	1.5%	1.5%		
Maximum Output Power (Individual Output)	600W	300W	150W	150 W		
Maximum Output Power (All Outputs Combined)	1,500W at 180 to 264VAC input voltage (up to 40°C) Derate: 8W per Volt below 180VAC, 50W per °C above 40°C					

**Environmental**

Operating Temperature Range	-20°C to 70°C
Thermal Shutdown	80°C on the internal heatsink, latching
Storage Temperature Range	-40°C to 70°C
Relative Humidity	5% -95% non-condensing

**Safety**

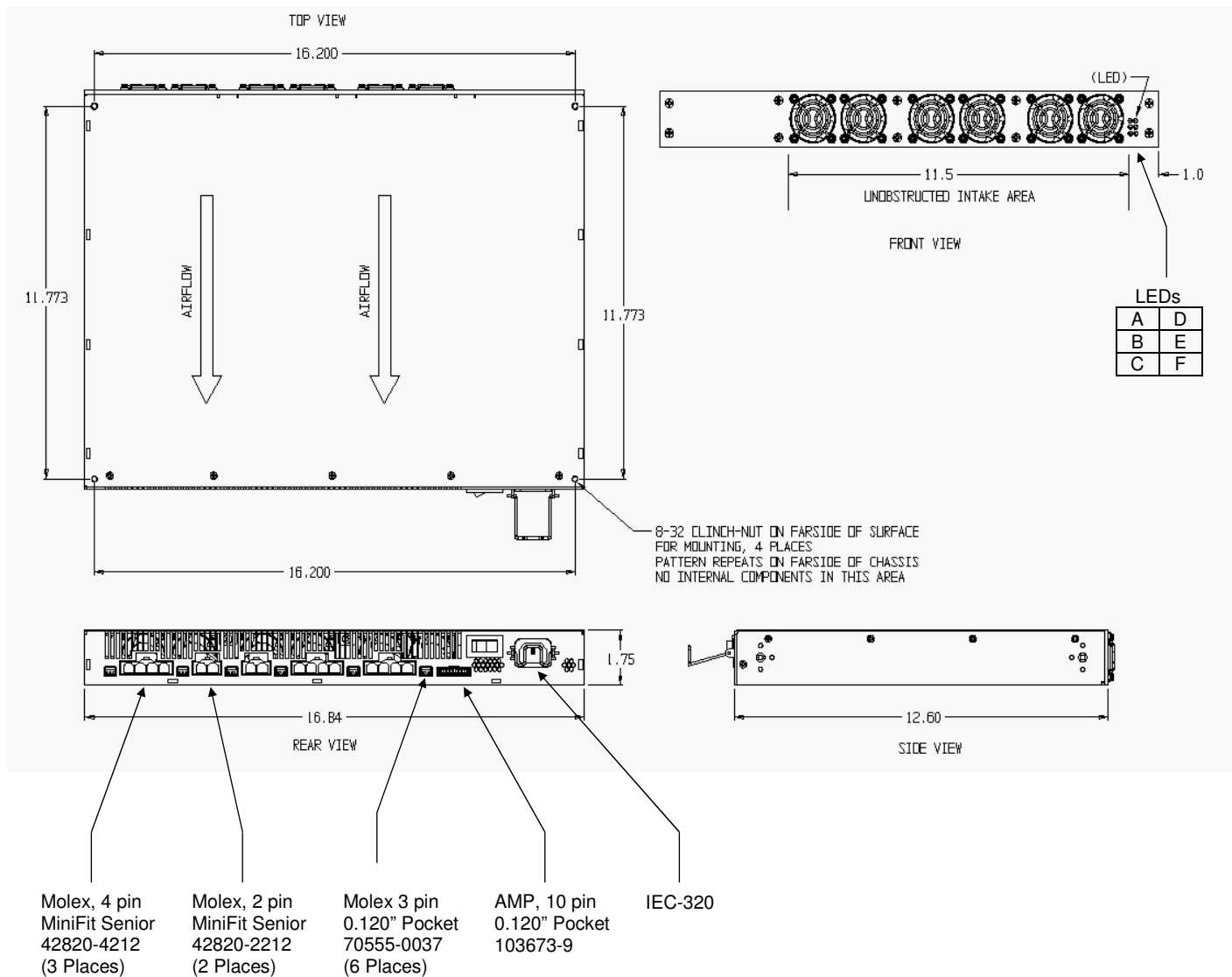
Agency Approvals	cTUVus, CE
Safety Standard Compliance	EN60950
Isolation, Primary-to-Secondary	3,000 Vrms
Isolation, Primary-Earth	1,500 Vrms
Isolation, Secondary-Earth	250 Vrms

<sup>1</sup> Unit will operate from 400 Hz, but may not meet Power Factor Specifications

EMI and EMC	
Conducted Noise	EN55022 Class A (150kHz-30MHz)

Mechanical	
Dimensions (Approximate. See Mechanical Drawing for details.)	16.84" x 12.6" x 1.75"
Mounting Options (contact factory for details)	Mounting Brackets 19" Front Panel
Cooling	Internal Fans
Weight (Typical, depends on configuration)	14 lb. (6.4 kg)

## Mechanical Drawing



# Connections

Input	
Connector	Details
IEC320	Standard pin configuration

Output Power Connections for Channels A and B				
Pin	Signal Description	Details		
		Molex Minifit Sr. Connector (Option -M)	Straight Busbar (Option -B)	Right-Angle Busbar (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		
Pin	Signal Description	Details
1	+	Positive Terminal, 20A max
2	-	Negative Terminal, 20A max

Output Power Connections for Channels E and F		
Pin	Signal Description	Details
1	+	Output E, Positive Terminal, 20A max
2	-	Output E, Negative Terminal, 20A max
3	+	Output F, Positive Terminal, 20A max
4	-	Output F, Negative Terminal, 20A max

**Trim/Remote Sense Connections for Channels A and B**

(Remote sense is active only if Maxi or Mini size module is installed.)

Pin	Signal Description	Details
1	+	Positive Sense Connection (Internally connected to positive output through 10 $\Omega$ resistor fused by 0.17A Polyfuse)
2	Trim	Connect this pin with a resistor to Pin 1 for trim up, or to Pin 3 for trim down.
3	-	Negative Sense Connection (Internally connected to negative output through 10 $\Omega$ resistor)

**Trim Connections for Channels C,D,E and F**

Pin	Signal Description	Details
1	+	(Internally connected to positive output through 0.17A Polyfuse)
2	Trim	Connect this pin with a resistor to Pin 1 for trim up, or to Pin 3 for trim down.
3	-	Connected directly to negative output.

**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 Inhibit	Connect to Pin 10 to inhibit output.  Open-circuit voltage 5V. Short-circuit current 1mA.	
2	Output B Inhibit		
3	Output C Inhibit		
4	Output D Inhibit		
5	Output E Inhibit		
6	Output F Inhibit		
7	Pgood	Open Collector, 40V/5mA, Active Low = Power Good	
8	Aux Output	Configurable: No Output, 12V, or 24V	1A max current combined
9	5VSB (Stand-By) Output	5V	
10	Control Return	Reference for all signals on I/O connector Return for Aux and 5VSB outputs	

**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.

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