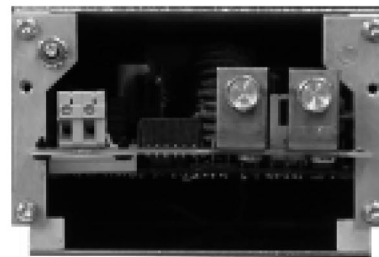


Series GR

AC/DC Power Supply with PFC 1250W, 2000W, 2500W

Industry's Lowest Profile, 3.3 Inches
Up to 11.8 Watts / Cu. Inch
250,000 Hours MTBF (Bellcore)
Unique Thermal Architecture
Up to 87% Efficiency
Active Power Factor Correction
Class B Input EMI Filter
No Minimum Load
Single-Wire Current Share
Remote Inhibit
5V, 50mA Supervisory Output
Overvoltage Protection
Thermal Protection
Overload & Short Circuit Protection
AC Power Good & DC Power Good
Active Inrush Current Limiting
Integral Isolation Diodes
UL, CSA, EN



OUTPUT SPECIFICATIONS

Total Output Power, Max	1250, 2000 or 2500W
Voltage Adjustment Range	±10%
Total Regulation ¹	1.0%
Ripple & Noise, Pk-Pk ²	125mV, 12V Models 250mV, 24V & 28V Models 500mV, 48V Models
Holdup Time	20ms
Dynamic Response ³	1ms
Temperature Coefficient	±0.05%/°C
Minimum Load	0A
Overload Protection	Constant Current Limiting
Overvoltage Protection	Latched Shutdown / Reset
Active Current Share ⁴	10% Differential from Rated Current
Remote Sense	Up to 0.5V Per Wire
Turn-On Time, Max.	2.0 sec.

INPUT SPECIFICATIONS

Input Voltage Range	See Model Table
Power Factor	0.98
Input Frequency	47-63Hz
Input EMI Filter, Conducted	EN55022 Curve B FCC20780 pt. 15J Curve B EN61000-3-2
Harmonic Distortion	
Input Immunity, Conducted	
Fast Transients, Line-Line	±2kV (EN61000-4-4 Level 3)
Surges, Line-Line	±1kV (EN61000-4-5 Level 2)
Surges, Line-Ground	±2kV (EN61000-4-5 Level 3)
Input Protection, Internal Fuse	20A

GENERAL SPECIFICATIONS

Efficiency	82%-87% at Full Load
Switching Frequency,	
PFC Converter	70kHz Nominal
Output Converter	70kHz Nominal
Over Temperature Shutdown	Auto Recovery
Isolation, class 1 ⁵	>3000VAC input - Output >1500VAC Input - Ground >50VDC Output - Ground
Safety Standards	EN60950, UL60950, CSA22.2 No.60950

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	0° C to 70° C Ambient
Derating	2.5% / °C, 50° C to 70° C
Storage Temperature	-40° C to +85° C
Cooling	Ball Bearing Fans

PHYSICAL SPECIFICATIONS

Case Material	Aluminum
Dimensions, Inches(mm)	3.3 H x 4.9 W x 13.1 D (83.8 x 124 x 333)
Weight	4.60 kg

NOTES:

1. At remote sense point over full line range and 0-100% load change.
2. 20MHz bandwidth. Measured with 0.1µF ceramic and 10µF tantalum capacitors in parallel across the output.
3. 5% deviation recovering to within 1% for 50% load change.
4. Using single wire current share with remote sense connected.
5. Input - output isolation figure is for isolation components only. 100% production Hipot tested..

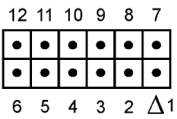
Typical at Nominal Line, Full Load and 25°C Unless Otherwise Noted.

STANDARD MODELS

MAX. WATTS	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT VOLTAGE RANGE	MIN. LOAD	LINE / LOAD REGULATION	MODEL NUMBER
1250*	12V	104.2A*	85-264 VAC	0A	1%	GRPI3000
1250*	24V	52.1A*	85-264 VAC	0A	1%	GRPI5000
1250*	28V	44.6A*	85-264 VAC	0A	1%	GRPI6000
1250*	48V	26.0A*	85-264 VAC	0A	1%	GRPI7000
2000	24V	83.3A	170-264 VAC	0A	1%	GRR15000
2000	28V	71.4A	170-264 VAC	0A	1%	GRR16000
2000	48V	41.7A	170-264 VAC	0A	1%	GRR17000
2500	24V	104.2A	170-264 VAC	0A	1%	GRS15000
2500	28V	89.3A	170-264 VAC	0A	1%	GRS16000
2500	48V	52.1A	170-264 VAC	0A	1%	GRS17000

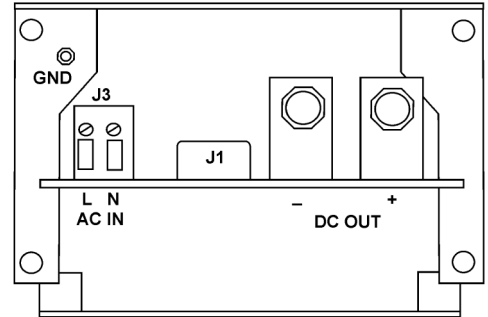
*NOTE: Below 90V, derate output by 10%. Full rated output power at 90-264 VAC input.

J1 TOP VIEW

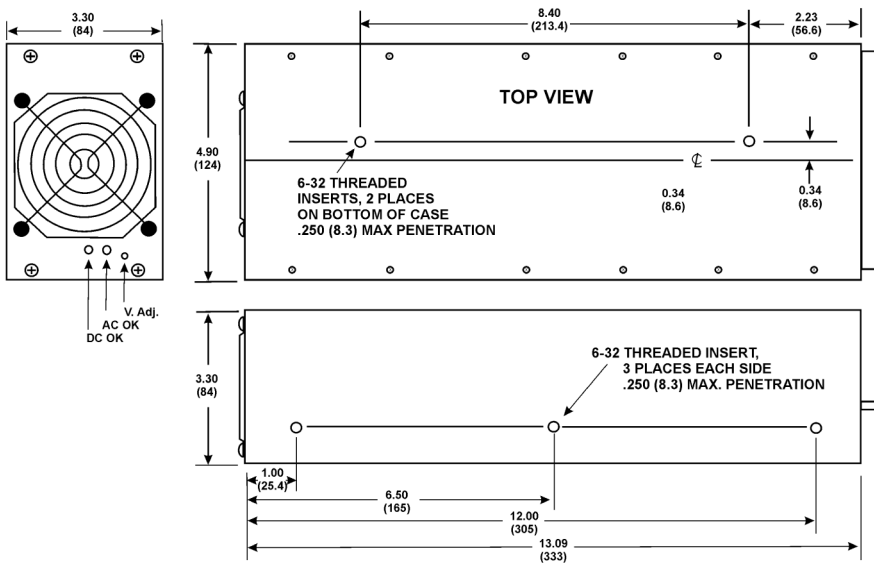


J1 PIN CONNECTIONS			
PIN	FUNCTION	PIN	FUNCTION
1	AC Power Fail	7	+5VDC Auxil.
2	Current Share	8	-Sense
3	- Sense	9	+Sense
4	Remote Adj.	10	-Sense
5	Inhibit	11	DC Power Good
6	Current Monitor	12	Thermal Alarm

BACK VIEW



CASE OUTLINE



MATING CONNECTOR KIT
 Mating Connector:
 MOLEX 43025-1200
 Crimp for Header: 43030-0001
 Order Kit No.: 775-1457-0000

ALL DIMENSIONS IN INCHES (mm).
 All specifications subject to change without notice.