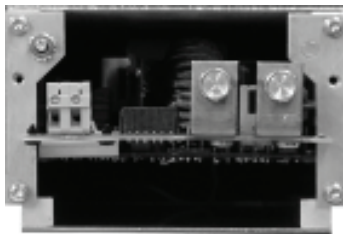


GR SERIES: LOW PROFILE FRONT ENDS 1250 to 2500 Watts with PFC



**CASE SIZE: 3.3 x 4.9 x 13.1
(84 x 124 x 333 mm)**



KEY FEATURES

- 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

TWO-YEAR WARRANTY

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%	GRSI5000
2500	28V	89.3A	170-264 VAC	0A	1%	GRSI6000
2500	48V	52.1A	170-264 VAC	0A	1%	GRSI7000

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

SPECIFICATIONS, GR SERIES

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

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
Inrush Limiting	25A peak
Input EMI Filter, Conducted	EN55022 Curve B FCC20780 pt. 15J Curve B
Harmonic Distortion	EN61000-3-2
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 I 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

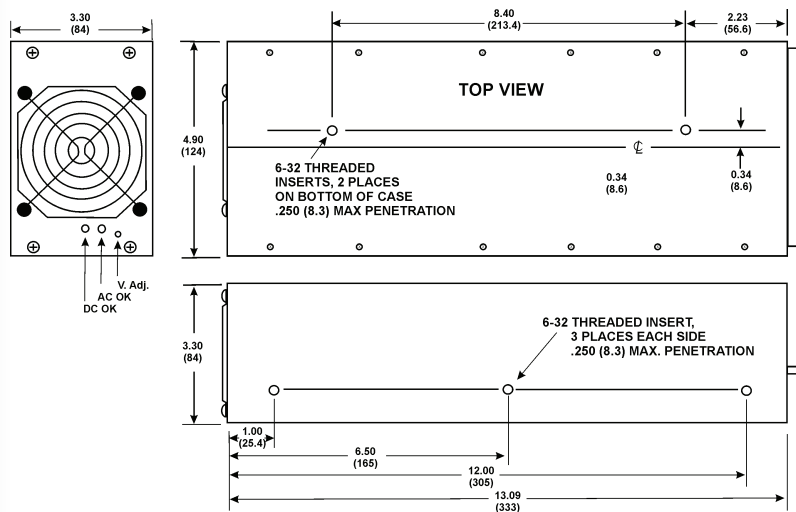
PHYSICAL SPECIFICATIONS

Case Material	Aluminum
Dimensions, Inches (mm)	3.3 H x 4.9 W x 13.1 D (83.8 x 124 x 333)
Weight	10.15 lbs. (4.60 kg.)

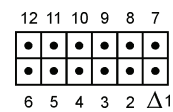
NOTES:

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

CASE OUTLINE



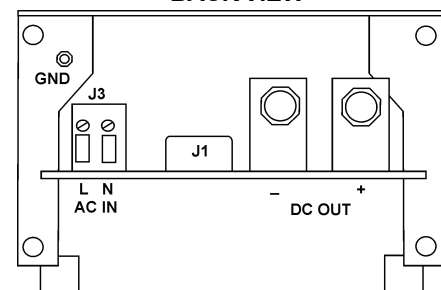
J1 TOP VIEW



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



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.

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