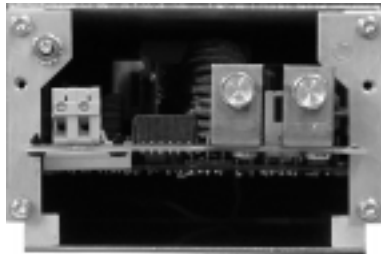


## GR SERIES: LOW PROFILE FRONT ENDS

### 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.

#### SAFETY CERTIFICATIONS

AGENCY	STANDARD
UL	UL60950
CUL	CSA22.2, No. 60950
DEMKO	EN60950

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# 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<sup>1</sup> ..... 1.0%  
 Ripple & Noise, Pk-Pk<sup>2</sup> ..... 125mV, 12V Models  
 250mV, 24V & 28V Models  
 500mV, 48V Models  
 Holdup Time ..... 20ms  
 Dynamic Response<sup>3</sup> ..... 1ms  
 Temperature Coefficient ..... ±0.05%/°C  
 Minimum Load ..... 0A  
 Overload Protection ..... Constant Current Limiting  
 Overvoltage Protection ..... Latched Shutdown / Reset  
 Active Current Share<sup>4</sup> ..... 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<sup>5</sup> ..... >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

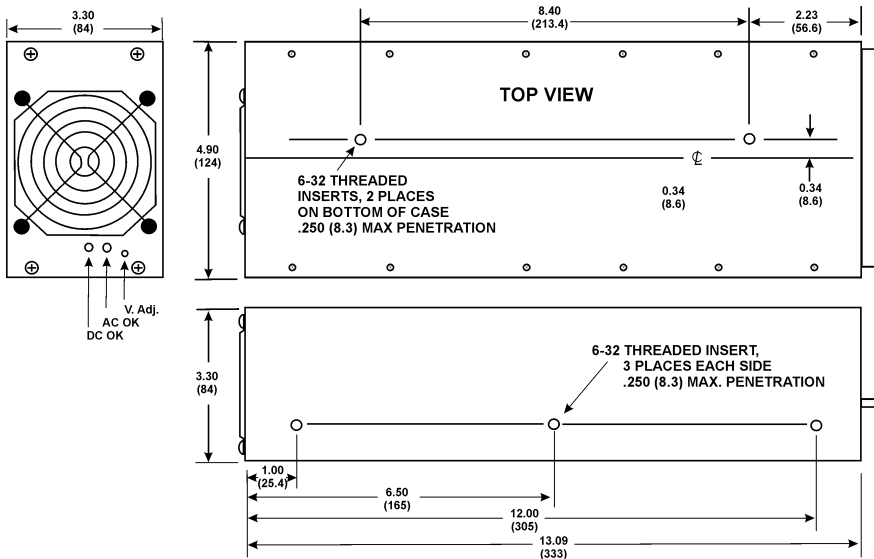
## PHYSICAL SPECIFICATIONS

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.)

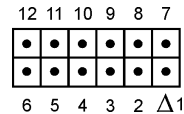
## NOTES:

- 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



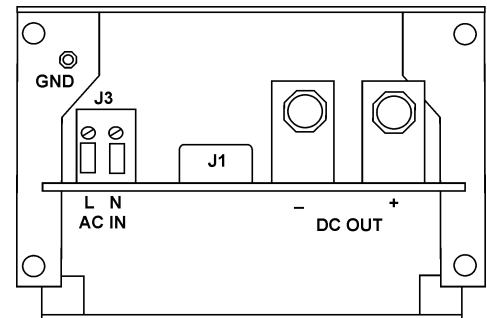
## J1 PIN CONNECTIONS

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

## MATING CONNECTOR KIT

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

## BACK VIEW



## ALL DIMENSIONS IN INCHES (mm).

All specifications subject to change without notice.

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