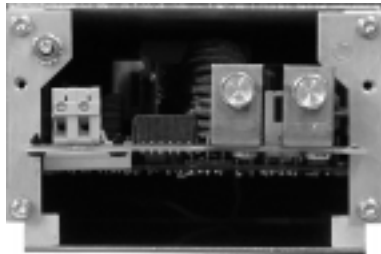


GR SERIES: LOW PROFILE FRONT ENDS

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% | 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.

SAFETY CERTIFICATIONS

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

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 Regulation¹ 1.0%
 Ripple & Noise, Pk-Pk² 125mV, 12V Models
 250mV, 24V & 28V Models
 500mV, 48V Models
 Holdup Time 20ms
 Dynamic Response³ 1ms
 Temperature Coefficient 0.05%/°C
 Minimum Load 0A
 Overload Protection Constant Current Limiting
 Overvoltage Protection Latched Shutdown / Reset
 Active Current Share⁴ 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 I⁵ >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

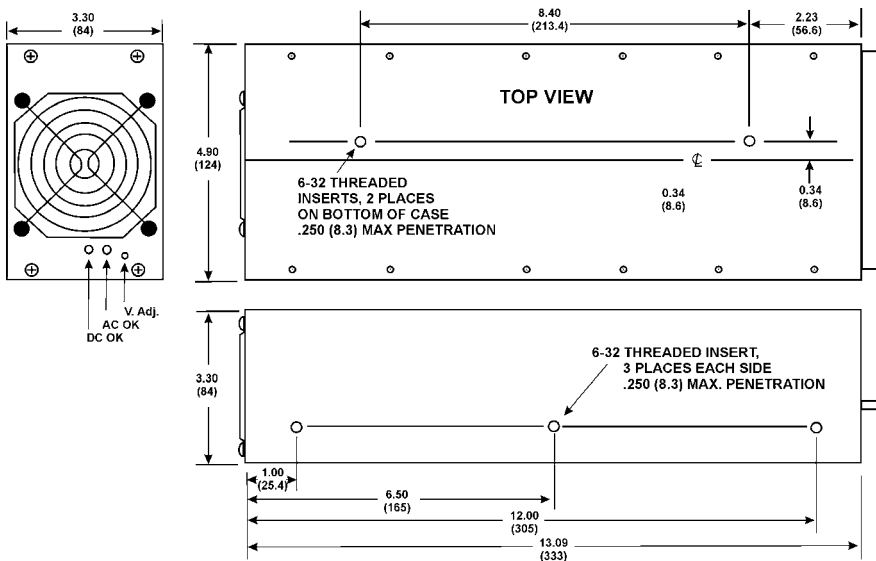
PHYSICAL SPECIFICATIONS

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.)

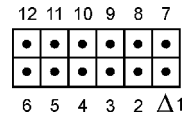
NOTES:

- At remote sense point over full line range and 0-100% load change.
- 20MHz bandwidth. Measured with 0.1 F ceramic and 10 F 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



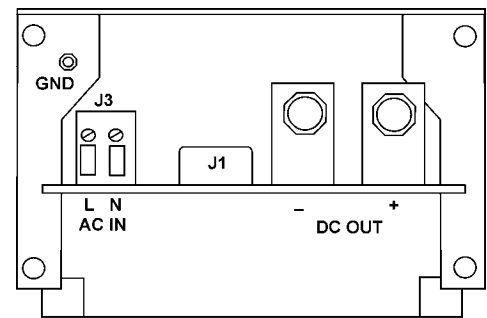
J1 TOP VIEW



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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