

LA & LC SERIES

SIGMA II COMPACT 1U FRONT-ENDS

Up to 1000 Watts - Hot Swap & Chassis Mount

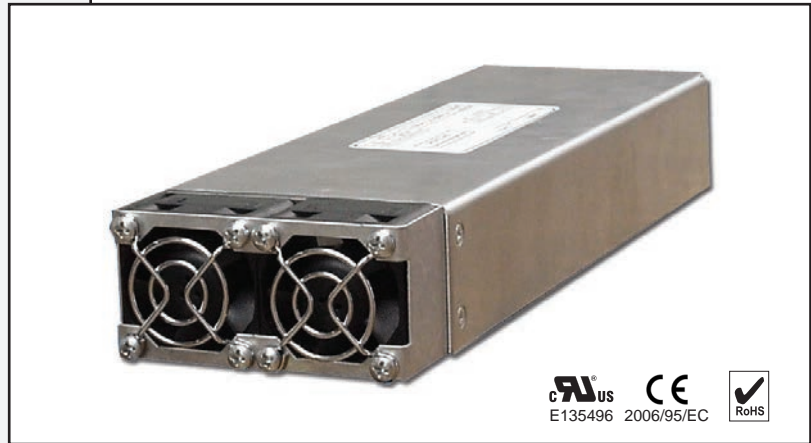
FEATURES

- ◆ 12, 24 or 48 VDC Outputs
- ◆ Class B Conducted EMI
- ◆ Up to 17 Watts/Cubic Inch
- ◆ 1U High Sigma II Package
- ◆ Hot-Swappable & Chassis Mount
- ◆ Staged Pin Engagement
- ◆ Low Drop ORing Circuit
- ◆ Single Wire Current Sharing
- ◆ Universal 85 to 264VAC Input
- ◆ Control & Monitoring Features

TWO YEAR WARRANTY

SAFETY CERTIFICATIONS

UL60950-1 2nd Edition
CSA22.2, No. 60950-1 2nd Edition
EN60950-1 2nd Edition



STANDARD MODELS

| Model Number | Output Voltage | Output Current | Output Power | | Chassis Mount | Hot-Swap |
|------------------|----------------|----------------|--------------|------------|---------------|----------|
| | | | 90-264VAC | 180-264VAC | | |
| LA48-14.6-40-RH6 | 48V | 14.6A | 700W | 700W | ✓ | |
| LC12-58-33-RH6 | 12V | 58.0A | 700W | 700W | | ✓ |
| LC24-38-40-RH6 | 24V | 38.0A | 810W | 900W | ✓ | |
| LC48-21-40-RH6 | 48V | 21.0A | 800W | 1000W | ✓ | |

Contact the factory for other non-standard models.

SPECIFICATIONS

Typical at Nominal Line, Full Load and 25°C Unless Otherwise Noted. Subject to change without notice.

INPUT SPECIFICATIONS

LA Series85-264VAC, 47-63hz
For operation from 90VAC to 85VAC contact factory.
LC Series.....85-264VAC, 47-63hz
Refer to Model Derating Table for allowable Output Current.
Power Factor 0.99
Inrush Current Limiting230VAC-50A
115VAC-25A
Harmonic Distortion.....EN61000-3-2

OUTPUT SPECIFICATIONS

Total Output Power, Continuous, Max 700-1000 Watts
Voltage Adjustment Range, Min.±5%
Total Regulation ¹..... 1.5%
Ripple & Noise, Pk-Pk, 20MHz Bandwidth)..... 1%
Holdup Time8-16mS
Dynamic Response300µS
Minimum Load0A
Overload Protection.....Auto Recovery
Overvoltage Protection..... Latched Shutdown
Remote Sense..... Up to 0.25V Per Wire
Current Share.....Single Wire
DC Power Good Signal See Note 2
Inhibit/Enable..... TTL Compatible
Overtemperature Warning..... Shutdown

GENERAL SPECIFICATIONS

Efficiency 80% at Full Load
Conducted EMI..... EN55022 Curve B
FCC20780 pt 15J Curve B
Input Immunity, Conducted
Fast Transients, Line-Line±2kV (EN61000-4-4 Level 3)
Surges, Line-Line±2kV (EN61000-4-5 Level 3)
Surges, Line-Ground±4kV (EN61000-4-5 Level 3)
MTBF (Bellcore)200,000 Hours

ENVIRONMENTAL SPECIFICATIONS

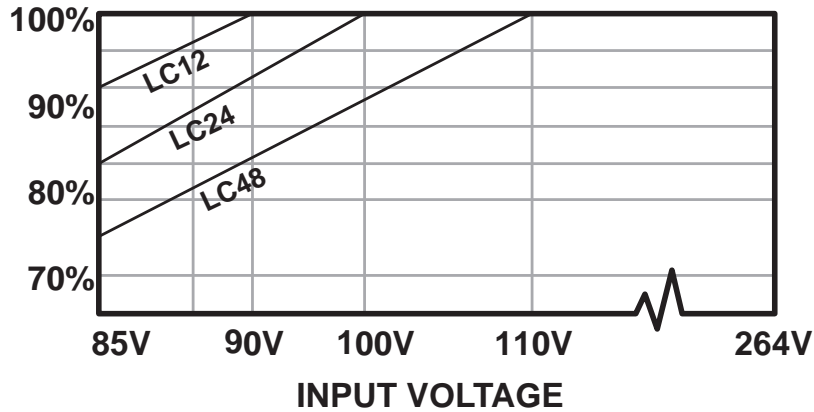
Operating Temperature.....0°C to 70°C Ambient
Derating.....2.5%/°C, 50°C to 70°C
Storage Temperature.....-40°C to +85°C
CoolingIntegral Ball Bearing Fan

PHYSICAL SPECIFICATIONS

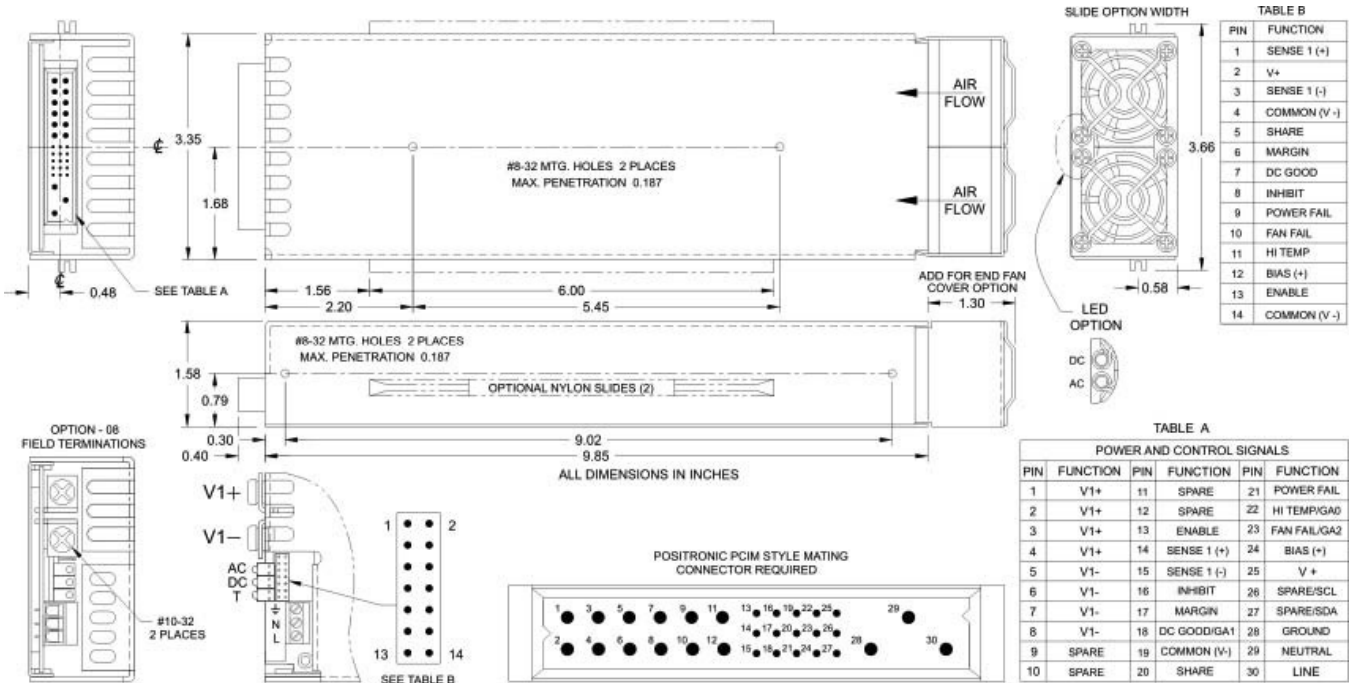
Case Material Aluminum
Dimensions, Inches (mm)..... 1.58H x 3.35W x 11.15D
(40.13 x 47.24 x 287.53)
Weight 4.00 lbs. (1.82 kg.)

- NOTES:**
1. No load to full load, including line and load regulation.
 2. TTL compatible Open Collector Output when output is at least 90% of nominal.

LC SERIES DERATING



MECHANICAL SPECIFICATIONS & CONNECTION DETAILS



ALL DIMENSIONS IN INCHES (mm).

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