



Features

- High Efficiency (up to 94%)
- Wide Range Universal Input 90-305 VAC
- Active Power Factor Correction (0.99 typical)
- Constant Voltage Output
- Lightning Protection
- Waterproof (IP67)
- Overcurrent, Overvoltage, Overtemperature Protection
- Meets UL8750 & EN61347 Safety
- 3 Year Warranty



Description

The LE300S-VN Series operate from a 90 ~ 305Vac input range. These units will provide up to 300W of output power. They are designed to be highly efficient and highly reliable. The standard features include lightning protection, overvoltage protection, short circuit protection, and over temperature protection.

Model Selection

| Model Number | Output Current | Output Voltage | Efficiency* | | Ripple & Noise** | Regulation | | Overvoltage Trip Level |
|--------------|----------------|----------------|-------------|---------|------------------|------------|------|------------------------|
| | | | 110Vac | 220Vac | | Line | Load | |
| LE300S28VN | 0 – 10.71A | 28Vdc | 91%-92% | 93%-94% | 2% of Vo pk-pk | ±1% | ±3% | 32V - 36V |
| LE300S48VN | 0 – 6.25A | 48Vdc | 91%-92% | 93%-94% | 2% of Vo pk-pk | ±1% | ±3% | 52V - 61V |

Notes: 1. Efficiency measured at full load, at input voltage noted.
2. Measured at 20MHz bandwidth, with noise probe directly across output terminals, and load terminated with 0.1µF ceramic and 10µF low ESR electrolytic capacitors.

General Specifications

| | | | |
|-----------------------|---|----------------------------|------------------------------------|
| AC Input | 90-305Vac, 47-63Hz, 1Ø | Turn On Time | 0.2 seconds, max. |
| Input Current | 100Vac: 3..3A, 220Vac: 1.6A | Hold-up Time | 20 mSec |
| Inrush Current | 230Vac, cold start: will not exceed 50A | Dimming Function | N/A |
| Input Fuses | XA, 250VAC fuses provided on all models | Overload Protection | 110%-180% of Io rated, Hiccup Mode |

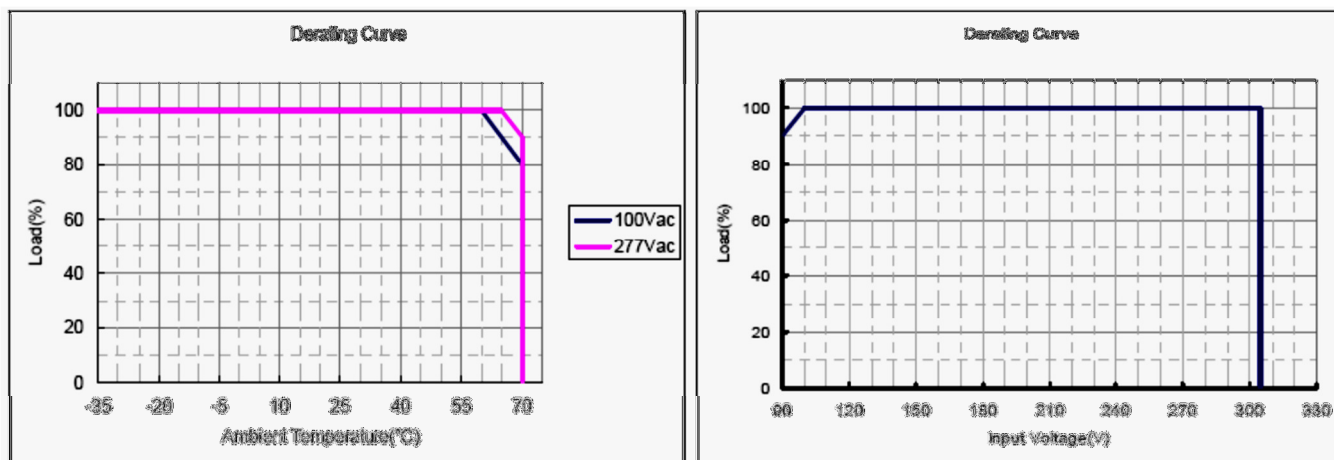
General Specifications (continued)

| | | | |
|------------------------------|--------------------------------|-----------------------------------|--|
| Earth Leakage Current | <0.75mA@277Vac, 50Hz | Short Circuit Protection | Provided - no damage to unit, self-recovery. |
| Efficiency | See Models chart. | Overvoltage Protection | Latch mode. AC input will need to be reset to return to normal operation after an OVP condition. See chart for trip range. |
| Output Power | 300W continuous | Overtemperature Protection | Latch mode. AC input will need to be reset to return to normal operation after an OTP condition. Trip Temperature = 110°C typical. |
| Ripple and Noise | See chart | Operating Temperature | Operating: -35°C to +70°C Non-operating: -40°C to +85°C |
| Output Voltage | See chart | Relative Humidity | 10% to 100% operating 5% to 100%, non-operating |
| Total Regulation | +/- 3%. See chart | Safety Standards | UL8750, UL935, UL1012, CSA-C22.2 No. 107.1, EN61347-1, EN61347-2-13 |
| Dimensions | W: 3.13" x L: 9.37" x H: 1.81" | MTBF | 296,000 hours (110Vac input, 80% load, 25°C ambient, per MIL-HDBK-217F). |
| Weight | 1500g | Lifetime | 156,000 hours (220Vac input, 80% load, 45°C ambient temperature). |

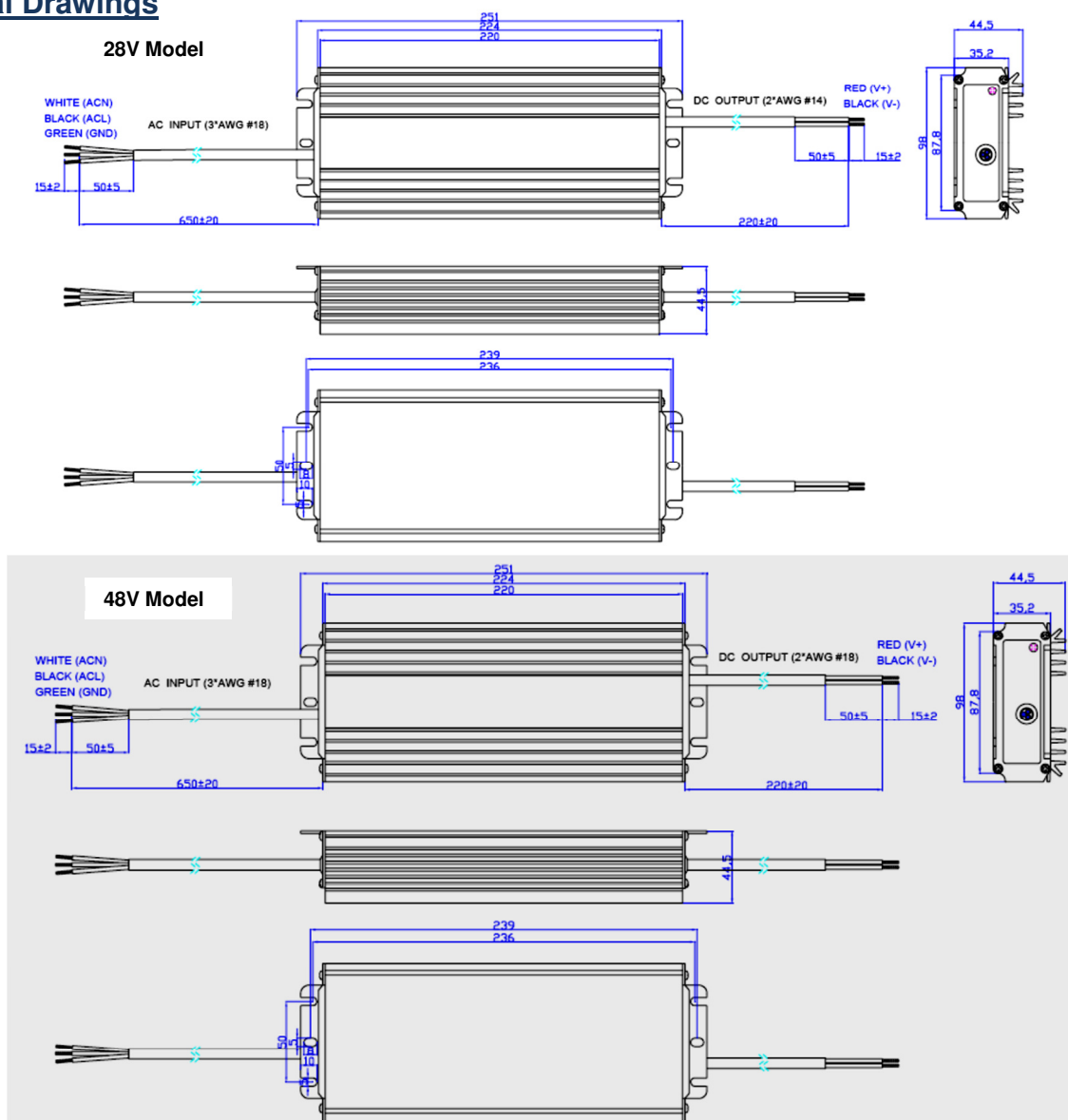
EMI/EMC Compliance

| | |
|--|---|
| Emissions | EN55015, Radiated & Conducted |
| EMI for Lighting Equipment | EN61547 |
| Static Discharge Immunity | EN61000-4-2, 4kV Contact Discharge, 8kV air discharge |
| Radiated RF Immunity | EN61000-4-3 |
| EFT/Burst Immunity | EN61000-4-4 |
| Line Surge Immunity | EN61000-4-5, 2kV line-line, 4kV line-earth |
| Conducted RF Immunity | EN61000-4-6 |
| Power Frequency Magnetic Field Immunity | EN61000-4-8 |
| Voltage Dip Immunity | EN61000-4-11 |
| Line Harmonic Emissions | EN61000-3-2 |
| Flicker Test | EN61000-3-3 |

Derating Curves



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