

## LDS100 Series

### LED Lighting Power Supply - Class 2

#### Data Sheet

**Total Power:** 100 Watts  
**# of Outputs:** Single

#### SPECIAL FEATURES

- Constant current & constant voltage operation
- Dimming options
- Free-air rated - no forced air necessary for cooling

#### COMPLIANCE

- Class 2 outputs
- IP64 to IP67 water protection
- CISPR 15 / FCC Part 15 EMI performance
- Class C harmonics
- <1.5 W no-load power
- > 0.9 power factor

#### SAFETY

- EN 61347-2-13
- UL 1310 / 8750
- CSA C22.2 No. 107.1
- CE Mark (LVD)

#### WARRANTY

Standard 5-year warranty



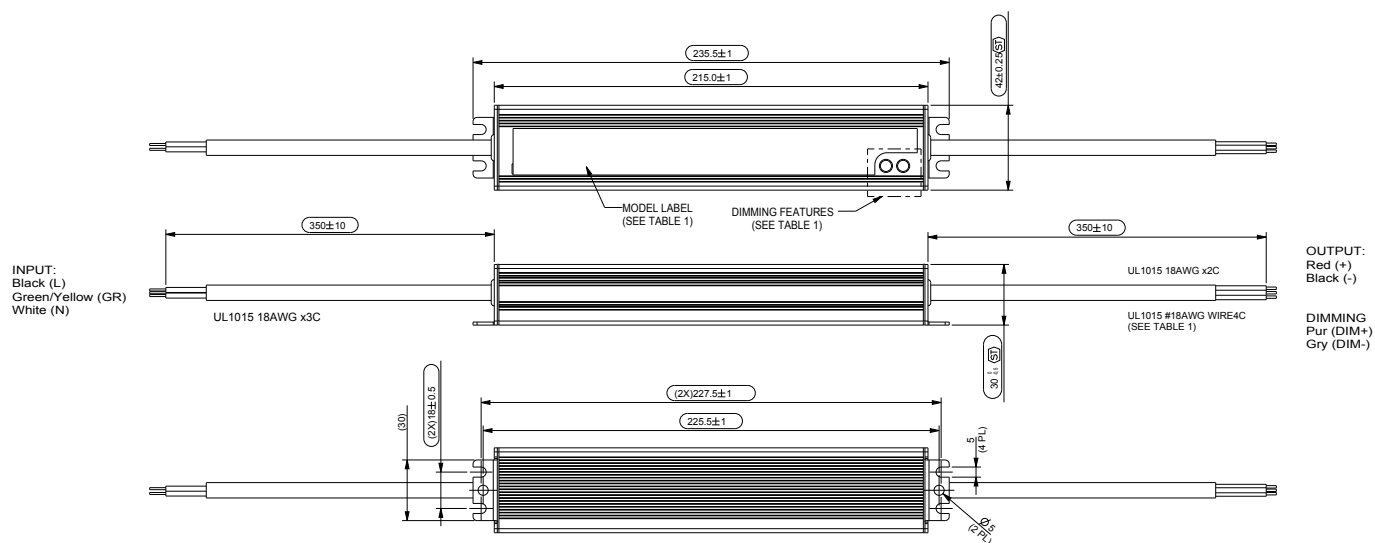
#### Electrical Specifications

| Input                  |  |
|------------------------|--|
| Input range nom        | 100 - 240 Vac (U models); 120-277 Vac (H models)                 |
| Input range max        | 90-264 Vac (U models); 90-305 Vac (H models); Derating may apply |
| Input frequency        | 47 - 63 Hz   |
| Inrush current         | < 50 A max., cold start @ 25 °C                                  |
| Leakage current        | 750 µA, at 264 Vac 50/60 Hz                                      |
| Input power (no-load)  | < 1.5 W, at no load  |
| Input power (max)      | < 118 W, at full load  |
| Input fusing           | Internally fused   |
| EMI/RFI                | CISPR 15<br>FCC Part 15  |
| Efficiency (typical)   | 90% - 230 Vac<br>89% - 115 Vac                                   |
| Output                 |  |
| Constant current       | Programmable current levels. Refer to model table for details    |
| Constant voltage       | No load to Full load operation. Refer to model table for details |
| Output power           | 100 W maximum. Class 2 rated outputs                             |
| Ripple voltage         | < 2%   |
| Control and Protection |  |
| Current limit          | Programmable. Refer to model table for details                   |
| Protection             | Short circuit<br>Overvoltage<br>Overtemperature                  |

### Environmental Specifications

| Criteria            | Specification             | Reference                              |
|---------------------|---------------------------|--|
| Power factor        | > 0.9                     | Energy Star                            |
| Harmonics           | Class C                   | IEC 61000-3-2                          |
| THD - input current | < 20%                     | ANSI C82.11                            |
| Surge immunity      | Level 3<br>6 kV ring wave | IEC 61000-4-5<br>ANSI C62.41           |
| EMC compliance      |                           | IEC 61000-4-2, -3, -4, -5, -6, -8, -11 |
| Temperature (case)  | -40 °C to 90 °C           | Operating                              |
| Ingress protection  | IP67                      | Refer to model table for details       |

### Mechanical Drawing



### Mechanical Miscellaneous

| Criteria      | Specification | Reference |
|---------------|---------------|-----------|
| Input wiring  | 300 mm        | 3-wire    |
| Output wiring | 300 mm        | 4-wire    |
| Weight        | 625 grams     |           |

### Ordering Information

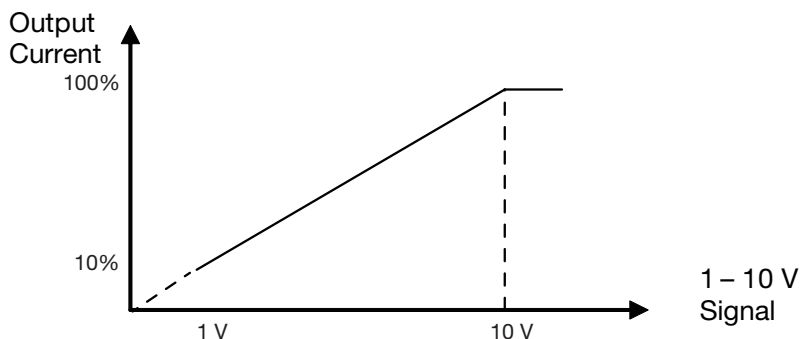
| Model Number  | Rated Output Voltage | Rated Output Current | Dimming Interface         | IP Rating |
|---------------|----------------------|----------------------|---------------------------|-----------|
| LDS100-24-U00 | 24 Vdc               | 4.1 Adc              |                           | IP67      |
| LDS100-24-U04 | 24 Vdc               | 4.1 Adc              | Programmable <sup>1</sup> | IP67      |
| LDS100-24-H00 | 24 Vdc               | 4.1 Adc              |                           | IP67      |
| LDS100-24-H03 | 24 Vdc               | 4.1 Adc              | 1 - 10 V                  | IP67      |
| LDS100-24-H04 | 24 Vdc               | 4.1 Adc              | Programmable <sup>1</sup> | IP67      |
| LDS100-31-H03 | 31 Vdc               | 3.16 Adc             | 1 - 10 V                  | IP67      |
| LDS100-31-H04 | 31 Vdc               | 3.16 Adc             | Programmable <sup>1</sup> | IP67      |
| LDS100-48-H03 | 48 Vdc               | 2.0 Adc              | 1 - 10 V                  | IP67      |

Notes:

1. The Dimming Interface on these highly-flexible models can be programmed via a Graphical User-Interface. The options include 0-10 V, 1-10 V and Bi-Level dimming. Maximum and minimum current levels and threshold levels are also programmable.

### Current Adjust and Dimming Description

0 - 10 V Between Purple & Grey Wires (for model -H03 only)



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