## LDS70 Series

## Data Sheet

LED Lighting Power Supply - Class 2


| 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: | $47-63 \mathrm{~Hz}$ |
| Inrush current: | < 50 A max., cold start @ $25^{\circ} \mathrm{C}$ |
| Leakage current: | $750 \mu \mathrm{~A}$, at $264 \mathrm{Vac} 50 / 60 \mathrm{~Hz}$ |
| Input power (no-load): | <1.0 W, at no load |
| Input power (max): | < 82 W , at full load |
| Input fusing: | Internally fused |
| EMI/RFI: | CISPR 15 <br> FCC Part 15 |
| Efficiency (typical): | $\begin{aligned} & 88 \%-230 \mathrm{Vac} \\ & 87 \%-115 \mathrm{Vac} \end{aligned}$ |
| 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: | 70 W maximum ( 60 W for 12 V . Class 2 rated outputs |
| Ripple voltage: | <2\% |
| Control and Protection |  |
| Current limit: | Programmable. Refer to model table for details |
| Protection: | Short Circuit Overvoltage 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 | IEC 61000-4-5 |
| EMC Compliance | 6 kV ring wave | ANSI C62.41 |
| Temperature (case) | $-40^{\circ} \mathrm{C}$ to $90^{\circ} \mathrm{C}$ | IEC $61000-4-2,-3,-4,-5,-6,-8,-11$ |
| Ingress Protection | IP64 through IP67 | Operating |

## Mechanical Drawing



Mechanical Miscellaneous

| Criteria | Specification | Reference |
| :---: | :---: | :---: |
| Input Wiring | 300 mm | 3-wire |
| Output Wiring | 300 mm | 4-wire |
| Weight | 575 grams |  |

## Ordering Information

| Model <br> Number | Rated Output <br> Voltage | Rated Output Current | Current Adjust | Dimming Interface | IP Rating |
| :---: | :---: | :---: | :---: | :---: | :---: |
| LDS70－12－U00 | 12 Vdc | 5.0 Adc |  | None | IP67 |
| LDS70－12－H03 | 12 Vdc | 5.0 Adc |  | $1-10 \mathrm{~V}$ | IP67 |
| LDS70－58－U00 | 58 Vdc | 1.2 Adc |  | None | IP67 |
| LDS70－58－U01 | 58 Vdc | 1.2 Adc | DIP Switch | 2 －level | IP67 |
| LDS70－58－H03 | 58 Vdc | 1.2 Adc |  | $1-10 \mathrm{~V}$ | IP67 |
| LDS70－58－H04 | 58 Vdc | 1.2 Adc |  | Programmable 1 | 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

| DIP Switch（for model－U01 only） |  |  |  |
| :---: | :---: | :---: | :---: |
| Switch 1 | Switch 2 | $\mathbf{- 1 2 ~ M o d e l ~}$ | $\mathbf{- 5 8 ~ M o d e l ~}$ |
| ON | ON | 5.00 Adc | 1.2 Adc |
| OFF | ON | 3.75 Adc | 0.9 Adc |
| ON | OFF | 2.50 Adc | 0.6 Adc |
| OFF | OFF | 1.25 Adc | 0.3 Adc |


| 2 Level－External Switch between Purple \＆Grey Wires（for model－U01 only） |  |
| :---: | :---: |
| Switch | Open Current |
| CLOSED | At Programmed Level |
| OPEN | At 20\％of Rated Level |

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


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