POWER

LDS70 Series

LED Lighting Power Supply - Class 2

Data Sheet

Total Power: 70 Watts
# of Outputs: Single



RoHS 6/6 COMPLIANT

SPECIAL FEATURES

- Constant Current & Constant Voltage operation
- Dimming options
- Free-Air rated - No forced air necesary for cooling

COMPLIANCE

- Class 2 Outputs
- IP64 to IP67 Water Protection
- CISPR 15 / FCC Part 15 EMI Performance
- Class C Harmonics
- < 1.0 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):	< 1.0 W, at no load
Input power (max):	< 82 W, at full load
Input fusing:	Internally fused
EMI/RFI:	CISPR 15 FCC Part 15
Efficiency (typical):	88% - 230 Vac 87% - 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:	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

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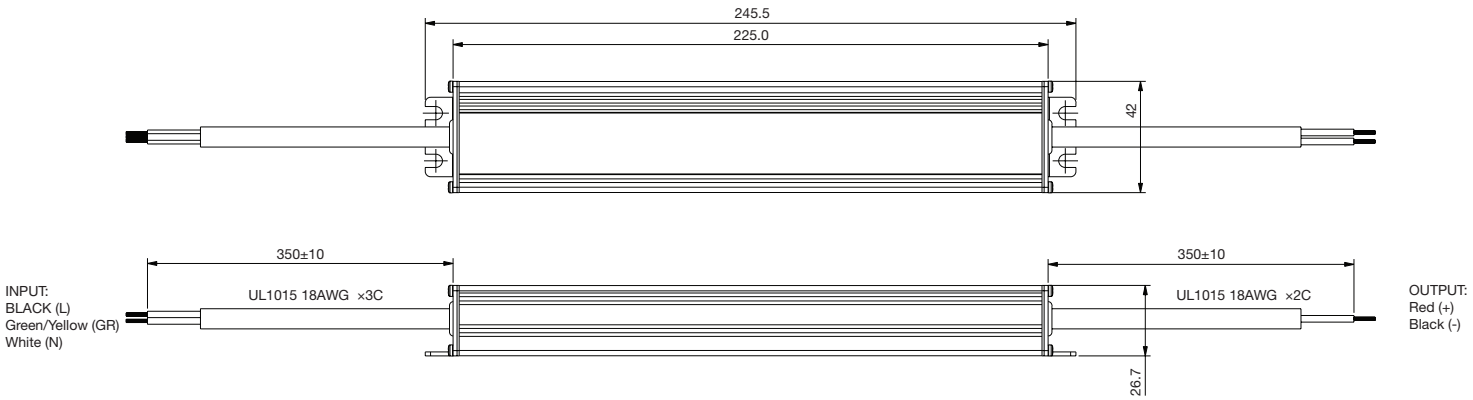
Environmental Specifications

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 6 kV ring wave	IEC 61000-4-5 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	IP64 through 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	575 grams	

Ordering Information

Model Number	Rated Output 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 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 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

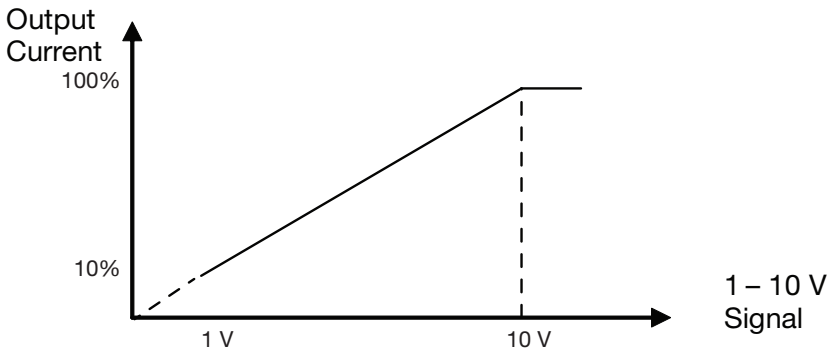
DIP Switch (for model -U01 only)

Switch 1	Switch 2	-12 Model	-58 Model
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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