

LDS70 Series

LED Lighting Power Supply - Class 2

Data Sheet

Total Power: 70 Watts **# of Outputs:** Single

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</p>
- > 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





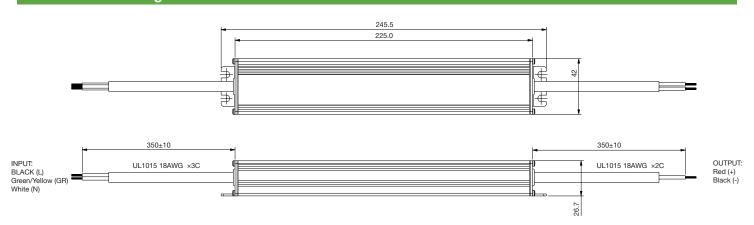
Electrical Specifications		
Input		
Input range nom:	100 - 240 Vac (U models); 120-277 Vac (H models)	
Input range (max):	90-264 Vac (U models); 90-305 Vac (H models); Derating may apply	
Input frequency:	47 - 63 Hz	
Inrush current:	< 50 A max., cold start @ 25 °C	
Leakage current:	750 µA, at 264 Vac 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	



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	

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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

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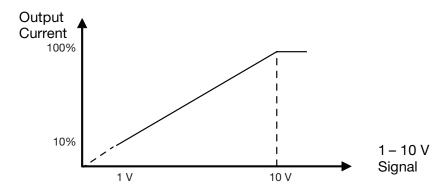
Notes:

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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