

LDS70 Series LED Lighting Power Supply - Class 2

Total Power: 70 Watts
of Outputs: Single



Rev.10.24.13
LDS70 Series
1 of 3

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
- < 1.0 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
(Consult Factory for Extended Terms)

Electrical Specifications

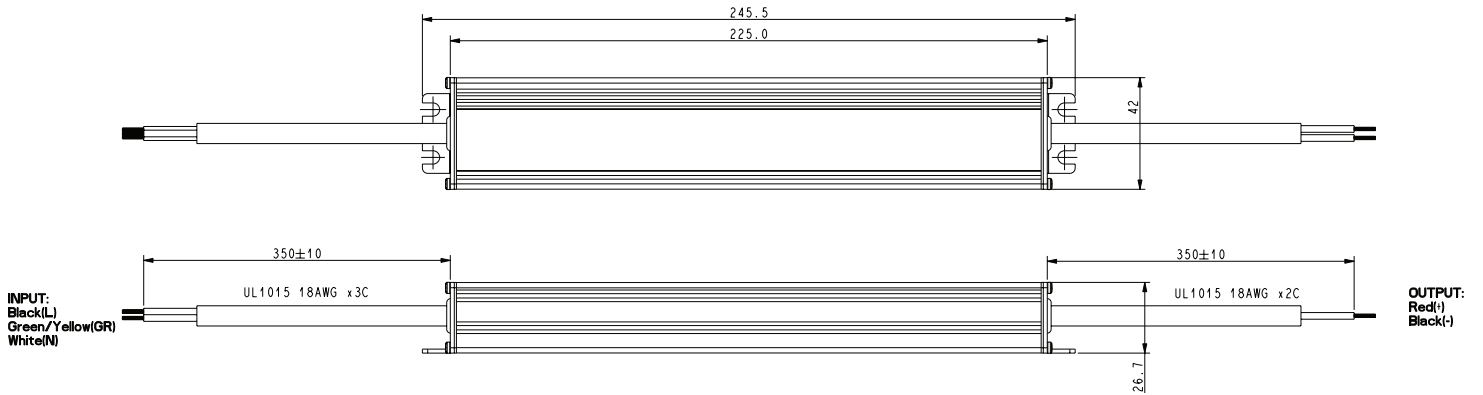


Input	
Input range nom:	100 - 240 Vac (U models); 120-277 Vac (H models)
Input range (max):	90-264 Vac (U models); 90-305 Vac (H models); Derating may apply
Input frequency:	47 - 63 Hz
Inrush current:	< 50 A max., cold start @ 25 °C
Leakage current:	750 µA, at 264 Vac 50/60 Hz
Input power (no-load):	< 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

Mechanical Drawing



Mechanical Miscellaneous

Criteria	Specification	Reference
Input Wiring	300 mm	3-wire
Output Wiring	300 mm	4-wire
Weight	370 grams	

Ordering Information

Model Number	Rated Output Voltage	Rated Output Current	Current Adjust	Dimming Interface	IP Rating	Status
LDS70-12-U00	12 Vdc	5.0 Adc		None	IP67	Released
LDS70-12-H03	12 Vdc	5.0 Adc		1 - 10 V	IP67	Released
LDS70-58-U00	58 Vdc	1.2 Adc		None	IP67	Released
LDS70-58-U01	58 Vdc	1.2 Adc	DIP Switch	2-level	IP64	Released
LDS70-58-H03	58 Vdc	1.2 Adc		1 - 10 V	IP67	Released
LDS70-58-H04	58Vdc	1.2Adc		Programmable ¹	IP67	Coming Soon

Notes:

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

Current Adjust and Dimming Description

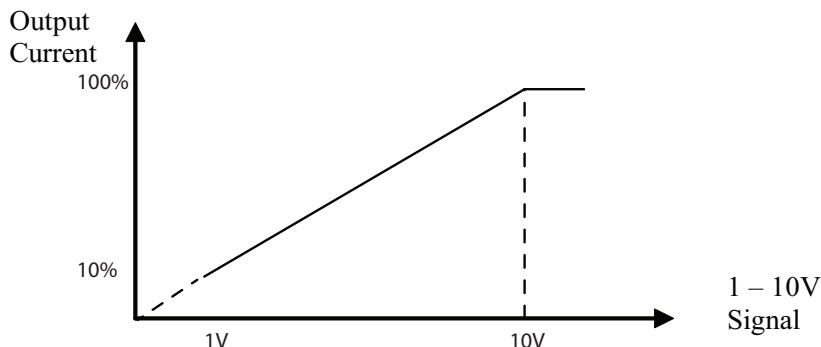
DIP Switch (for model -U01 only)

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)



Americas

5810 Van Allen Way
Carlsbad, CA 92008
USA
Telephone: +1 760 930 4600
Facsimile: +1 760 930 0698

Europe (UK)

Waterfront Business Park
Merry Hill, Dudley
West Midlands, DY5 1LX
United Kingdom
Telephone: +44 (0) 1384 842 211
Facsimile: +44 (0) 1384 843 355

Asia (HK)

14/F, Lu Plaza
2 Wing Yip Street
Kwun Tong, Kowloon
Hong Kong
Telephone: +852 2176 3333
Facsimile: +852 2176 3888

For global contact, visit:

www.Emerson.com/EmbeddedPower
techsupport.embeddedpower@emerson.com

While every precaution has been taken to ensure accuracy and completeness in this literature, Emerson Network Power assumes no responsibility, and disclaims all liability for damages resulting from use of this information or for any errors or omissions.

Emerson Network Power.
The global leader in enabling
business-critical continuity.

- AC Power
- Connectivity
- DC Power
- Embedded Computing
- **Embedded Power**
- Monitoring
- Outside Plant
- Power Switching & Controls
- Precision Cooling
- Racks & Integrated Cabinets
- Services
- Surge Protection

EmersonNetworkPower.com

Emerson and the Emerson Network Power logo are trademarks of Emerson Electric Co. ©2012 Emerson Electric Co. All rights reserved.