

## LDS70 Series

### LED Lighting Power Supply - Class 2

**Total Power:** 70 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
- < 1.0 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)

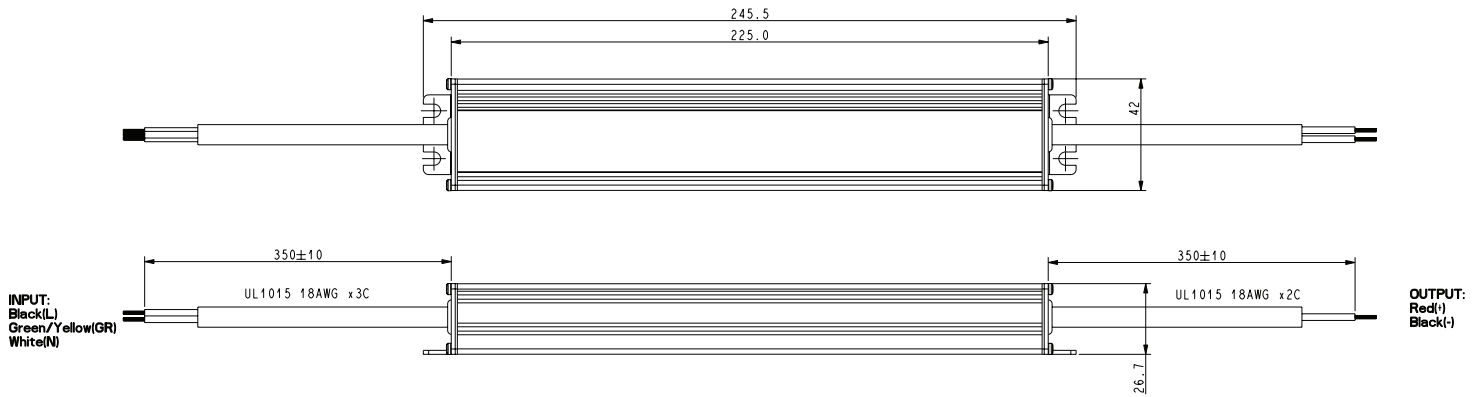
## Electrical Specifications

Input	
Input range:	100 - 240 Vac (U models); 120-277 Vac (H models)
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 80 °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-U01	12 Vdc	5.0 Adc	DIP Switch	2-level	IP64	Coming Soon
LDS70-12-H03	12 Vdc	5.0 Adc		0 - 10 V	IP67	Coming Soon
LDS70-58-U00	58 Vdc	1.2 Adc		None	IP67	Released
LDS70-58-U01	58 Vdc	1.2 Adc	DIP Switch	2-level	IP64	Coming Soon
LDS70-58-H03	58 Vdc	1.2 Adc		0 - 10 V	IP67	Coming Soon

### 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

## Current Adjust and Dimming Description

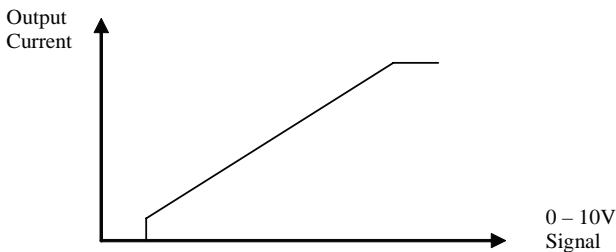
### DIP Switch

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

Switch	Open Current
CLOSED	At Programmed Level
OPEN	At 20% of Rated Level

### 0 - 10 V Future Models Between Purple & Grey Wires



For global contact, visit:

[www.Emerson.com/EmbeddedPower](http://www.Emerson.com/EmbeddedPower)  
[techsupport.embeddedpower@emerson.com](mailto: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 Network Power and the Emerson Network Power logo are trademarks and service marks of Emerson Electric Co.  
©2010 Emerson Electric Co.