Rev.11.09.10\_114 LDS70 Series 1 of 3

## **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		



Rev.11.09.10\_114 LDS70 Series 2 of 3

# **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 Miscellaneous				
Criteria	Specification	Reference		
Input Wiring	300 mm	3-wire		
Output Wiring	300 mm	4-wiге		
Weight	370 grams			

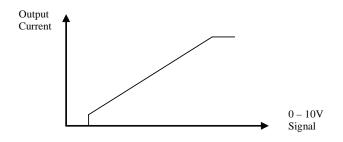
Ordering Information						
Model Number	Rated Output Voltage	Rated Output Current	Current Adjust	Dimming Interface	IP Rating	Status
LDS70-12-U01	12 Vdc	5.0 Adc	DIP Switch	2-level	IP64	Coming Soon
LDS70-12-H03	12 Vdc	5.0 Adc		0 - 10 V	IP67	Coming Soon
LDS70-58-U00	58 Vdc	1.2 Adc		None	IP67	Released
LDS70-58-U01	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

**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



#### **Americas**

LDS70 Series 5810 Van Allen Way Carlsbad, CA 92008

Rev.11.09.10\_114

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 Network Power and the Emerson Network Power logo are trademarks and service marks of Emerson Electric Co. ©2010 Emerson Electric Co.