

LDS100 Series

LED Lighting Power Supply - Class 2

Data Sheet

Total Power: 100 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
- <1.5 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



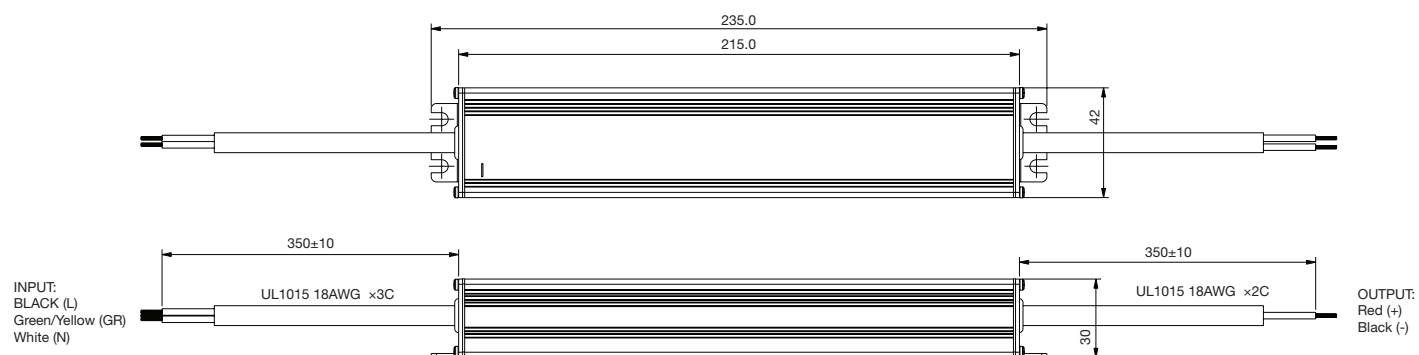
Electrical Specifications

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 μ A, at 264 Vac 50/60 Hz
Input power (no-load):	< 1.5 W, at no load
Input power (max):	< 118 W, at full load
Input fusing:	Internally fused
EMI/RFI:	CISPR 15 FCC Part 15
Efficiency (typical):	90% - 230 Vac 89% - 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:	100 W maximum. 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	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	400 grams	

Ordering Information

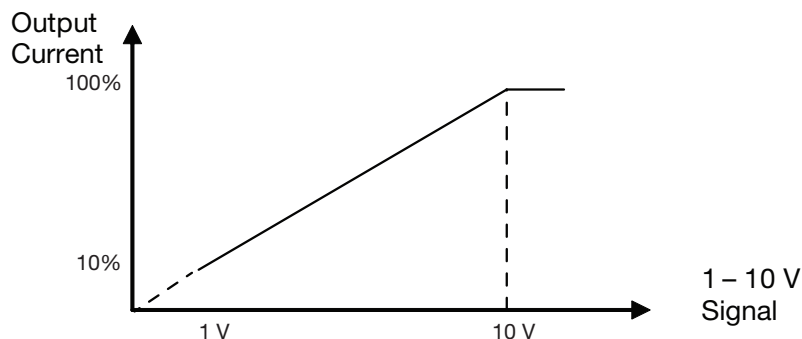
Model Number	Rated Output Voltage	Rated Output Current	Dimming Interface	IP Rating
LDS100-24-U00	24 Vdc	4.1 Adc		IP67
LDS100-24-U04	24 Vdc	4.1 Adc	Programmable ¹	IP67
LDS100-24-H00	24 Vdc	4.1 Adc		IP67
LDS100-24-H03	24 Vdc	4.1 Adc	1 - 10 V	IP67
LDS100-24-H04	24 Vdc	4.1 Adc	Programmable ¹	IP67
LDS100-31-H03	31 Vdc	3.16 Adc	1 - 10 V	IP67
LDS100-31-H04	31 Vdc	3.16 Adc	Programmable ¹	IP67
LDS100-48-H03	48 Vdc	2.0 Adc	1 - 10 V	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

0 - 10 V Between Purple & Grey Wires (for model -H03 only)



WORLDWIDE OFFICES

Americas

2900 S.Diablo Way
Tempe, AZ 85282
USA
+1 888 412 7832

Europe (UK)

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

Asia (HK)

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

ARTESYN[™]
EMBEDDED TECHNOLOGIES

www.artesyn.com

While every precaution has been taken to ensure accuracy and completeness in this literature, Artesyn Embedded Technologies assumes no responsibility, and disclaims all liability for damages resulting from use of this information or for any errors or omissions. Artesyn Embedded Technologies, Artesyn and the Artesyn Embedded Technologies logo are trademarks and service marks of Artesyn Embedded Technologies, Inc. All other names and logos referred to are trade names, trademarks, or registered trademarks of their respective owners.
© 2014 Artesyn Embedded Technologies, Inc.

For more information: www.artesyn.com/power
For support: productsupport.ep@artesyn.com

LDS100 DS Rev. 08.27.14