POWER

LDS25 Series

LED Lighting Power Supply

Data Sheet

Total Power: 25 Watts
Current: 300 to 700 mA
# of Outputs: Single



RoHS 6/6 COMPLIANT

SPECIAL FEATURES

- Constant Current & Constant Voltage operation
- 0 - 10 V Dimming
- Free-Air rated - No forced air necessary for cooling
- Hot-wiring protection
- 350 Vac for 2 hours

COMPLIANCE

- IP20 and Open-Frame
- CISPR 15 / FCC Part 15 EMI Performance
- Class C Harmonics
- > 0.9 Power Factor

SAFETY

- EN 61347-2-13
- UL 60950 / 8750
- CSA C22.2 No. 107.1
- CE Mark (LVD)

WARRANTY

Standard 2-Year Warranty

Electrical Specifications

Input	
Input range:	120-277 Vac
Input frequency:	47 - 63 Hz
Inrush current:	< 30 A max., cold start @ 25 °C
Leakage current:	250 µA, at 264 Vac 50/60 Hz
Input power (short-circuit):	5 W
Input current (max):	< 0.35 A, at full load
Input fusing:	Internally fused
EMI/RFI:	CISPR 15 FCC Part 15
Efficiency (typical):	86% - 230 Vac 86% - 120 Vac
Output	
Constant current:	From 36 V to 26 V
Constant voltage:	From 300 mA to 700 mA or Programmed Value, whichever is less
Output power:	25 W maximum
Ripple current:	15% peak; 30% peak-to-peak
Control and Protection	
Current limit:	Programmable. Refer to model table for details
Protection:	Short Circuit Overvoltage Overtemperature Hot wiring protection

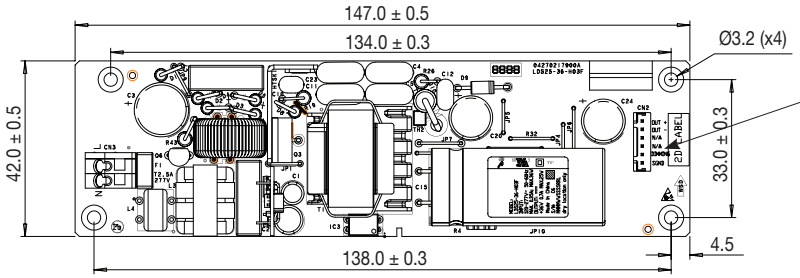
ARTESYN™
EMBEDDED TECHNOLOGIES

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	IEC 61000-4-5
EMC Compliance		IEC 61000-4-2, -3, -4, -5, -6, -8, -11
Temperature (case)	-30 °C to +90 °C	Operating
Ingress Protection	IP20 and Open-Frame	Refer to model table for details

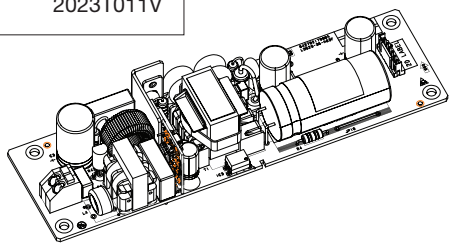
Mechanical Drawing

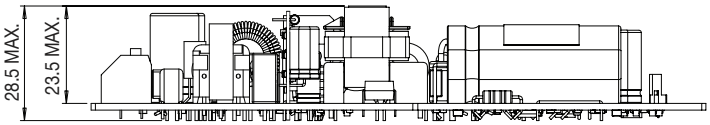
LDS25-36-H03F



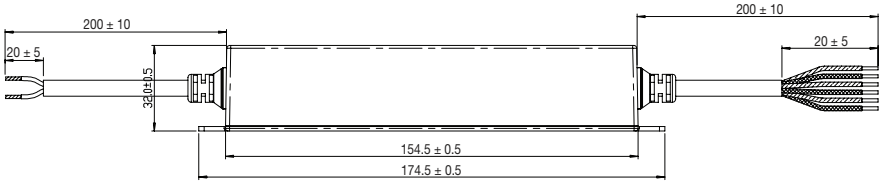
CN2 Mating Connector

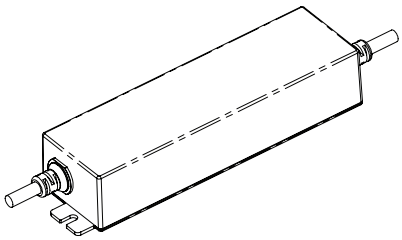
Vendor Name:	LANDWIN
Housing:	2020S0600
Contact:	2023T011V

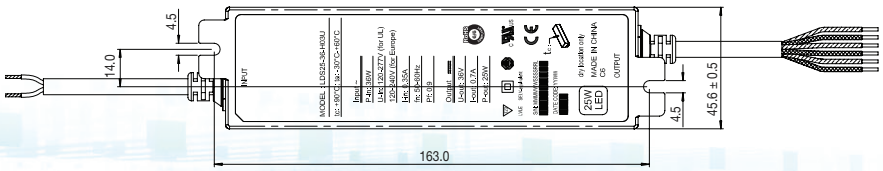


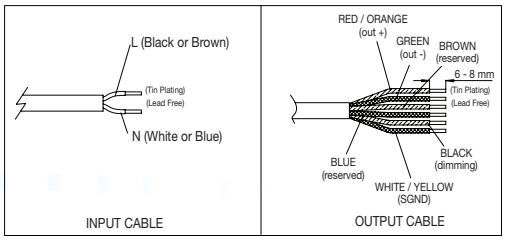


LDS25-36-H03U









Ordering Information

Model Number	Rated Output Voltage	Rated Output Current	Dimming Interface	IP Rating
LDS25-36-H03U	36 Vdc	700 mA dc	0 - 10 V	IP20
LDS25-36-H03F	36 Vdc	700 mA dc	0 - 10 V	Open-frame

Input Connections: 2-Wire

		LDS25-36-H03F	LDS25-36-H03U	
Function	Name	Pin#	Wire Color	Wire Gauge
AC input Line	L	CN1-Black	Black or Brown	18AWG
AC input Neutral	N	CN1-Red	White or Blue	18AWG

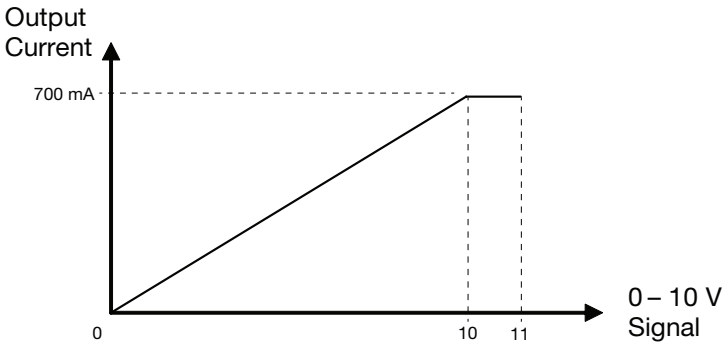
Output Connections: 6-Wire

		LDS25-36-H03F	LDS25-36-H03U	
Function	Name	Pin#	Wire Color	Wire Gauge
DC Output - Positive	OUT+	CN2-1	Red or Orange	22AWG
DC Output - Return	OUT-	CN2-2	Green	22AWG
Reserved		CN2-3	Brown	
Reserved		CN2-4	Blue	
Dimming	DIMMING	CN2-5	Black	22AWG
Signal Ground	SGND	CN2-6	White or Yellow	22AWG

Current Adjust and Dimming Description

0 - 10 V Interface

Control Voltage between “Dimming” and “SGND”



Dimming Resistor between “Dimming” and “SGND”

Programmed Current	Resistor Value
300 mA	16.9 kOhm
350 mA	22.6 kOhm
500 mA	52.3 kOhm
525 mA	61.9 kOhm
700 mA	511 kOhm

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