



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## LDS25 Series

LED Lighting Power Supply

### Data Sheet

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

### 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

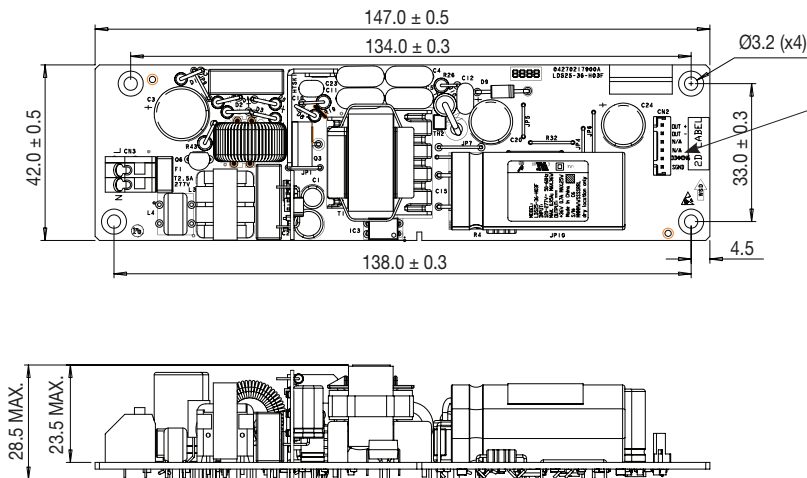
Input	
Input range:	120-277 Vac
Input frequency:	47 - 63 Hz
Inrush current:	< 30 A max., cold start @ 25 °C
Leakage current:	250 µA, at 264 Vac 50/60 Hz
Input power (short-circuit):	5 W
Input current (max):	< 0.35 A, at full load
Input fusing:	Internally fused
EMI/RFI:	CISPR 15 FCC Part 15
Efficiency (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

### Environmental Specifications

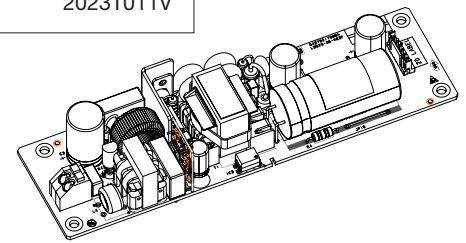
Criteria	Specification	Reference
Power Factor	> 0.9	Energy Star
Harmonics	Class C	IEC 61000-3-2
THD - Input Current	< 20%	ANSI C82.11
Surge Immunity	Level 3	IEC 61000-4-5
EMC Compliance		IEC 61000-4-2, -3, -4, -5, -6, -8, -11
Temperature (case)	-30 °C to +90 °C	Operating
Ingress Protection	IP20 and Open-Frame	Refer to model table for details

### Mechanical Drawing

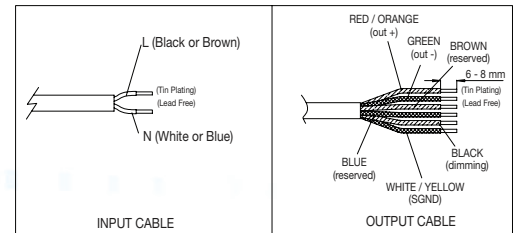
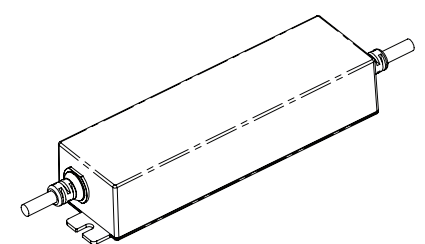
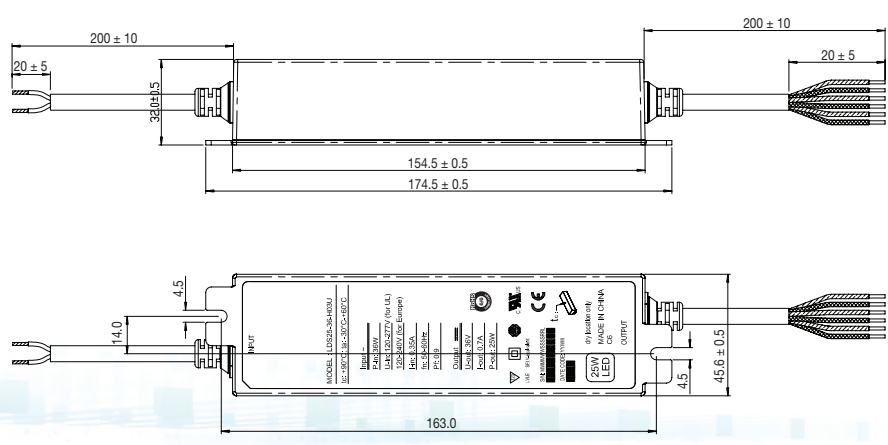
#### LDS25-36-H03F



**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

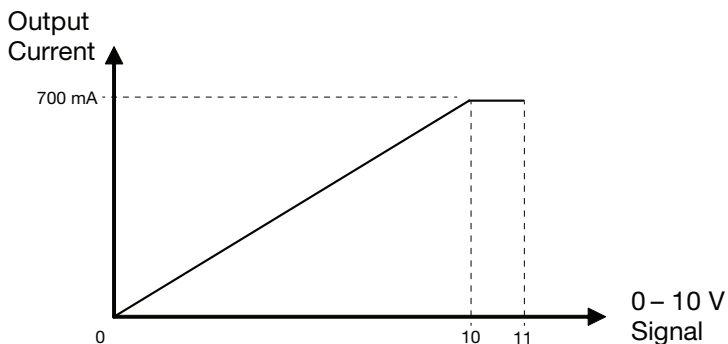
		LDS25-36-H03F	LDS25-36-H03U	
Function	Name	Pin#	Wire Color	Wire Gauge
DC Output - Positive	OUT+	CN2-1	Red or Orange	22AWG
DC Output - Return	OUT-	CN2-2	Green	22AWG
Reserved		CN2-3	Brown	
Reserved		CN2-4	Blue	
Dimming	DIMMING	CN2-5	Black	22AWG
Signal Ground	SGND	CN2-6	White or Yellow	22AWG

### 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

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