

# **LDS25 Series**

LED Lighting Power Supply



Total Power:25 WattsCurrent: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)



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		

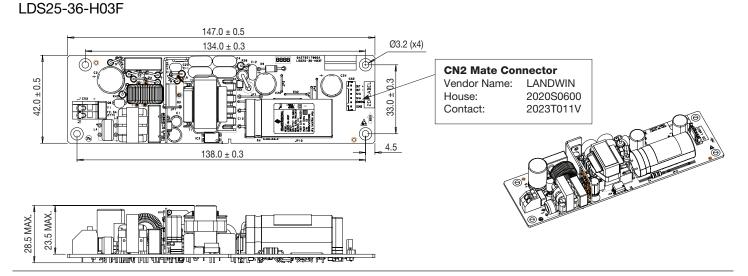


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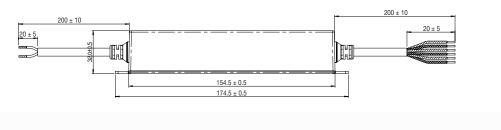


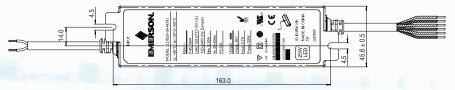
Environmental Specifications			
Criteria	Specification	Reference	
Power Factor	> 0.9	Energy Star	
Harmonics	Class C	IEC 61000-3-2	
THD - Input Current	< 20%	ANSI C82.11	
Surge Immunity	Level 3	IEC 61000-4-5	
EMC Compliance		IEC 61000-4-2, -3, -4, -5, -6, -8, -11	
Temperature (case)	-30 °C to +90 °C	Operating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

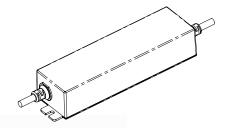
# **Mechanical Drawing**

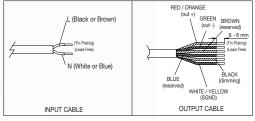


### LDS25-36-H03U











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

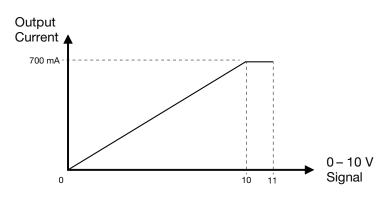
Input Connections: 2-Wire				
LDS25-36-H03F		LDS25-3	36-H03U	
Function	Name	Pin#	Wire Color	Wire Gauge
AC input Line	L	CN1-Black	Black or Brown	18AWG
AC input Neutral	N	CN1-Red	White or Blue	18AWG

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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