



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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## LDS150 Series

### LED Lighting Power Supply

#### Data Sheet

**Total Power:** 150 Watts  
**# of Outputs:** Single

#### SPECIAL FEATURES

- Constant Current & Constant Voltage operation
- Dimming options
- Free-Air rated - No forced air necessary for cooling
- Life: 100 K Hours @ 65 °C  
50 K Hours @ 75 °C

#### COMPLIANCE

- IP67 Water Protection
- CISPR 15 / FCC Part 15 EMI Performance
- Class C Harmonics
- > 0.9 Power Factor

#### SAFETY

- EN 61347-2-13
- UL 8750 , 1012
- CSA C22.2 No. 107.1 -01
- CE Mark (LVD)

#### WARRANTY

Standard 5-Year Warranty



#### Electrical Specifications

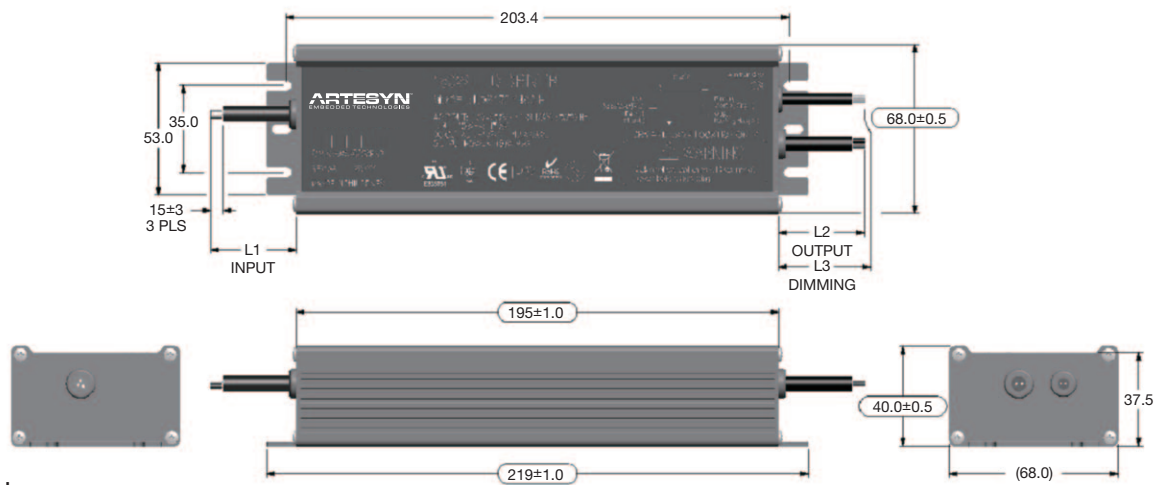
Input	
Input range nom:	100-277 Vac (H models)
Input range max:	90-305 Vac
Input frequency:	50/60 Hz
Inrush current:	< 50 A max., cold start @ 25 °C
Leakage current:	750 µA, at 264 Vac 50/60 Hz
Input power (no-load):	< 1.0 W, at no load, 277Vac (< 2.0W at 100Vac)
Input power (max):	< 170 W, at full load
Input fusing:	Internally fused
EMI/RFI:	CISPR 15 FCC Part 15
Efficiency (typical):	94% - 277 Vac 92% - 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:	150 W maximum.
Ripple voltage:	< 2%
Ripple current:	< 10% pk-pk at rated load
Control and Protection	
Current limit:	Programmable. Refer to model table for details
Protection:	Short Circuit Overvoltage Overtemperature

### Environmental Specifications

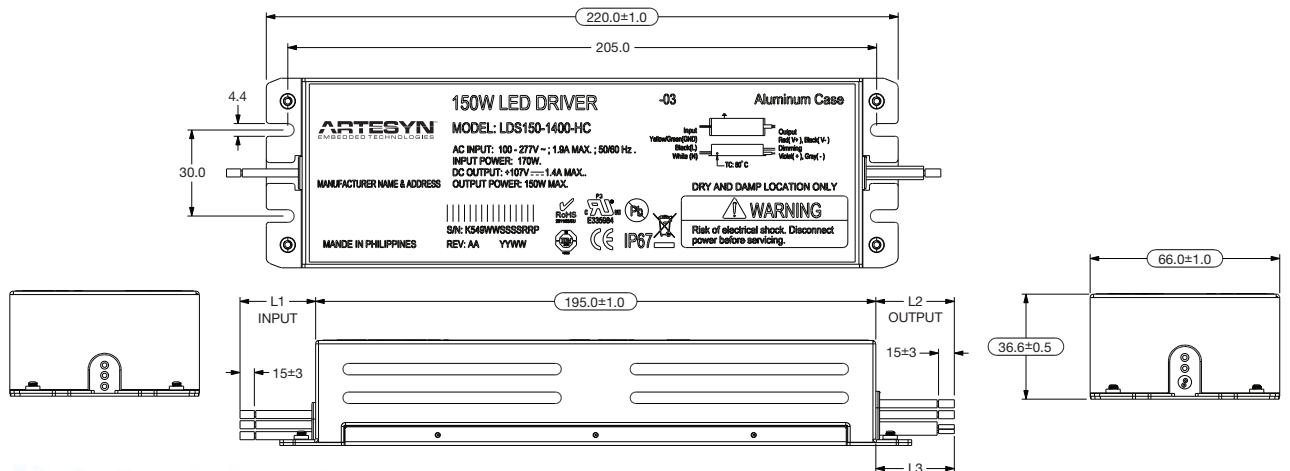
Criteria	Specification	Reference
Power Factor	> 0.9	Energy Star
Harmonics	Class C	IEC 61000-3-2
THD - Input Current	< 20%	ANSI C82.11
Surge Immunity	Level 4 Combination Surge (4kV CM, 2kV DM) 6 kV ring wave	IEC 61000-4-5 ANSI C62.41
EMC Compliance		IEC 61000-4-2, -3, -4, -5, -6, -8, -11
Temperature (case)	-40 °C to 80 °C	Operating , Startup at -40 °C, Spec Compliance at -20 °C
Ingress Protection	IP67	Refer to model table for details

### Mechanical Drawing

H03 Model



H03C Model



### Mechanical Miscellaneous

Criteria	Specification	Reference
Input Wiring	250 mm	3-wire, 18 ga. BLACK (L), WHITE(N), YELLOW/GREEN (GND)
Output Wiring	250 mm	2-wire, 18 ga. , RED (+), BLACK (-)
Dimming Wiring	250 mm	2-wire, 24 ga. , VIOLET (DIM+), GREY (DIM-)
Weight	1050 grams	

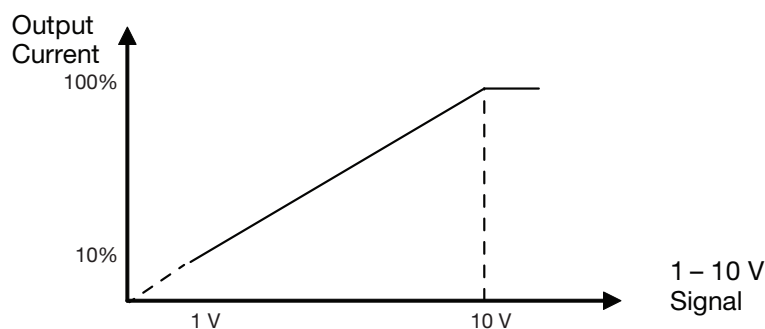
### Ordering Information

Model Number	Rated Output Voltage	Rated Output Current	Dimming Interface	IP Rating	Case
LDS150-1400-H03	107 Vdc	1400 mA	1-10 V	IP67	Aluminum Extrusion
LDS150-1400-H03C	107 Vdc	1400 mA	1-10 V	IP67	Sheet Metal

### Current Adjust and Dimming Description

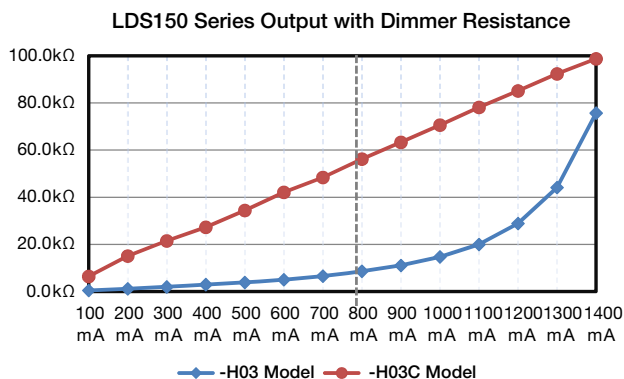
Apply Voltage or Resistance Across Purple & Grey Wires

#### Dimming with Applied Voltage



#### Dimming with External Resistance

Output Current (A)	Dimming Res (kΩ)	
	-H03 Model	-H03C Model
100	0.52	6.45
200	1.20	15.10
300	1.99	21.50
400	3.00	27.30
500	3.91	34.41
600	5.04	42.10
700	6.56	48.41
800	8.66	56.20
900	11.10	63.30
1000	14.75	70.62
1100	20.00	78.12
1200	28.90	85.10
1300	44.13	92.32
1400	75.70	98.70



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