

## LDS70 Series

### LED Lighting Power Supply - Class 2

#### Data Sheet

**Total Power:** 70 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
- < 1.0 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



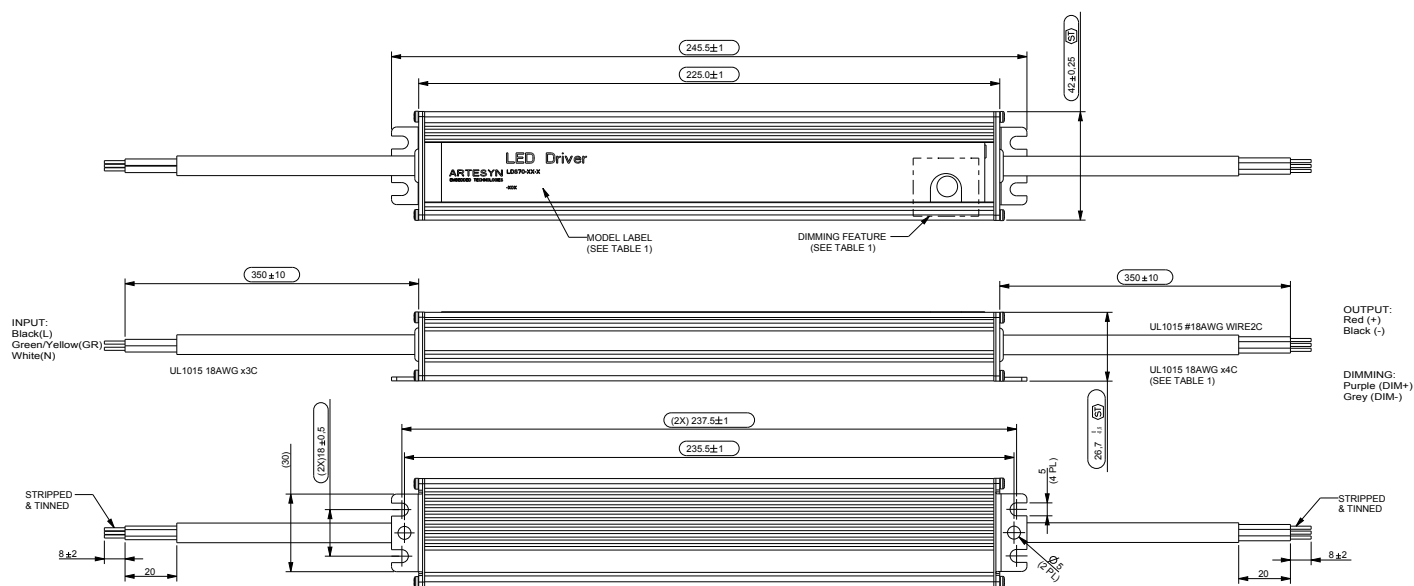
#### Electrical Specifications

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 µA, at 264 Vac 50/60 Hz
Input power (no-load)	< 1.0 W, at no load
Input power (max)	< 82 W, at full load
Input fusing	Internally fused
EMI/RFI	CISPR 15 FCC Part 15
Efficiency (typical)	88% - 230 Vac 87% - 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	70 W maximum (60 W for 12 V). 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	IP64 through 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	575 grams	

### Ordering Information

Model Number	Rated Output Voltage	Rated Output Current	Current Adjust	Dimming Interface	IP Rating
LDS70-12-U00	12 Vdc	5.0 Adc		None	IP67
LDS70-12-H03	12 Vdc	5.0 Adc		1 - 10 V	IP67
LDS70-58-U00	58 Vdc	1.2 Adc		None	IP67
LDS70-58-U01	58 Vdc	1.2 Adc	DIP Switch	2-level	IP67
LDS70-58-H03	58 Vdc	1.2 Adc		1 - 10 V	IP67
LDS70-58-H04	58 Vdc	1.2 Adc		Programmable <sup>1</sup>	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

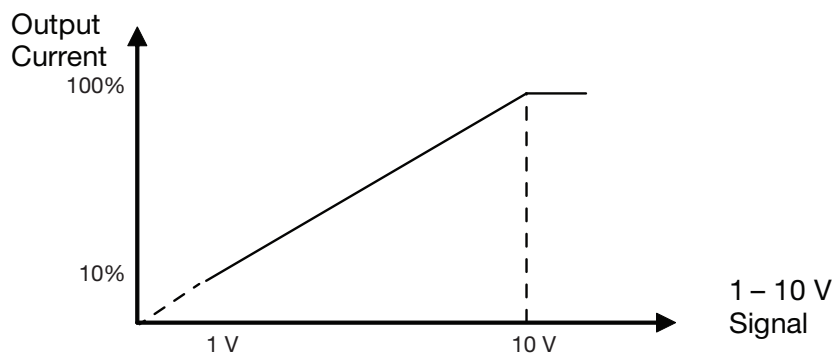
#### DIP Switch (for model -U01 only)

Switch 1	Switch 2	-12 Model	-58 Model
ON	ON	5.00 Adc	1.2 Adc
OFF	ON	3.75 Adc	0.9 Adc
ON	OFF	2.50 Adc	0.6 Adc
OFF	OFF	1.25 Adc	0.3 Adc

#### 2 Level - External Switch between Purple & Grey Wires (for model -U01 only)

Switch	Open Current
CLOSED	At Programmed Level
OPEN	At 20% of Rated Level

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



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