



Thomas Research Products

SSL Solutions Faster Than The Speed Of Light®

LED-17W Series

Switch Mode LED Drivers
Constant Current & Constant Voltage with Isolation
Black Magic Thermal Advantage™ Plastic Housing

Total Power: 17 Watts
Input Voltage: 100-277 Vac
Outputs: Single from 6-36 Vdc
Indoor or Outdoor Applications, IP66
High Power Factor
UL1310, Class 2 and UL48 Compliant

Electrical Specifications

Input Voltage Range:	100-277 Vac Nom. (90-305 V Min/Max)
Frequency:	50/60 Hz Nom. (47-63 Hz Min/Max)
Power Factor:	>0.90 @ full load, 100V through 277V
Inrush Current:	<2 Amps max @ 230 Vac, cold start 25°C
Input Current:	0.20 Amps max at 115 Vac
Efficiency:	82% typical at max load
Maximum Power:	17W
Current Accuracy:	± 1% (when applicable)
Load Regulation:	± 3%
THD:	≤ 20% @ 120 Vac, ≤ 35% @ 277 Vac
Leakage Current:	300 µA Typical
Hold Up Time:	Half Cycle
Protection:	Output Over-Voltage, Output Over-Current, and Output Short Circuit Protection with Auto Recovery

Environmental Specifications

Operating Temperature:	-30°C to +60°C
Storage Temperature:	-40°C to +85°C
Maximum Case Temp.	80°C
Humidity:	5% to 95%
Cooling:	Convection
Vibration Frequency:	5 to 55 Hz/2g, 30 minutes
MTBF:	543,000 Hours at full load and 40°C ambient conditions per MIL-217F Notice 2
EMC:	Compliant to CISPR 22 Class B, CISPR 14-1 Class B, GB4343 1-2003, GB17625.1-2003



Constant Current - Product Specifications

Model Number	Output Current (mA ±3%)	Output Voltage Range (Vdc)	Max. Output Power (W)	Typical Efficiency
LED17W-36-C0470	470	18-36	17	83%
LED17W-24-C0700	700	12-24	17	82%
LED17W-12-C1400	1400	6-12	17	82%

Constant Voltage - Product Specifications

Model Number	Output Voltage (Vdc ±3%)	Output Current Range (mA)	Max. Output Power (W)	Typical Efficiency
LED17W-36	36	118-470	17	83%
LED17W-24	24	175-700	17	82%
LED17W-12	12	350-1400	17	82%

Class 2: US/Canada



Note:

LED drivers are designed and intended to operate LED loads only. Non-LED loading may be outside the specified design limits of our LED driver, and therefore cannot be covered by any warranty. If you desire to use our LED drivers to operate non-LED loads please contact us to discuss compatibility.

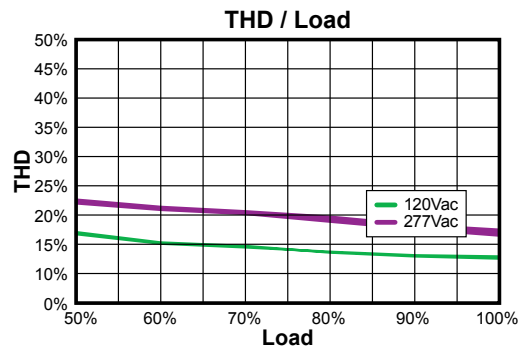
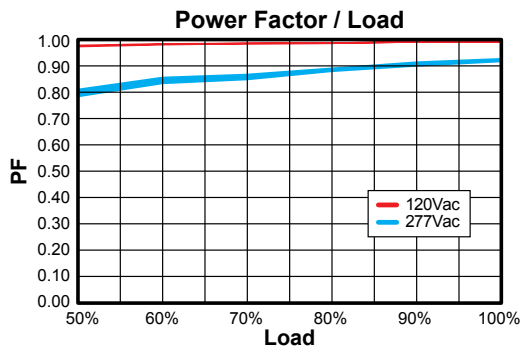
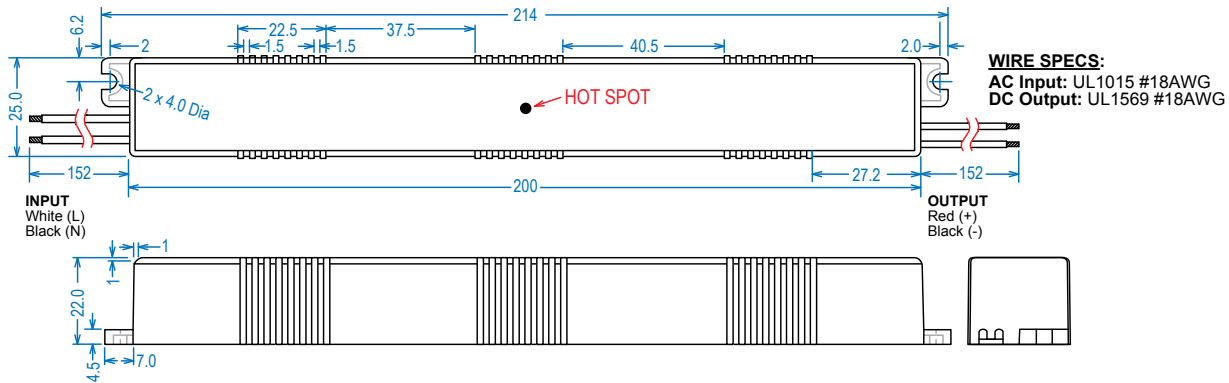
Specifications subject to change without notice.

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LED17W

Pg 2 of 2

Dimensions - mm



Safety and Regulatory Certifications

UL8750, UL1310, UL47, CSA 22.2, CE, FCC, IP66