

LED-12W Series

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

Electrical Specifications

Input Voltage Range: 100-277 Vac Nom. (90-305 V Min/Max)

Input Over-Voltage: Can endure 320Vac for 48 Hrs, 350Vac for 2 Hrs

Frequency: 50/60 Hz Nom. (47-63 Hz Min/Max) Power Factor: >0.90 @ 120V, >0.75 @ 277V

Inrush Current: <15.0 Amps max @ 230 Vac, cold start 25°C

0.15 Amps max at 120 Vac Input Current:

Maximum Power:

± 1% (when applicable) Line Regulation:

Load Regulation:

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

Minimum Starting Temp:

-40°C to +85°C Storage Temperature:

Maximum Case Temp. 90°Cv **Humidity:** 5% to 95% Cooling: Convection

5 to 55 Hz/2g, 30 minutes Vibration Frequency:

Sound Rating:

MTBF: >550,000 Hours @ full load & 40°C ambient conditions per MIL-217F Notice 2

Compliant to CISPR 22 Class B, CISPR 14-1 Class B, GB4343 1-2003, GB17625.1-2003 EMC:

Weight: 4.5 oz. (128 g)



• Total Power: 12 Watts

• Input Voltage: 100-277 Vac Nom. • UL Dry & Damp Location Rated

Suitable for use signs (UL48)

High Power Factor

• UL Sign Components Manual (S.A.M. Models)

Constant Current - Product Specifications						
Model Number	Output Current (mA ±5%)	Output Voltage Range (Vdc)	Max. Output Power (W)	Typical Efficiency		
LED12W-48-C0250	250	24-48	12	82%		
LED12W-36-C0350	350	18-36	12.6	81%		
LED12W-24-C0350	350	16.4-24	8.2	80%		
LED12W-24-C0500	500	12-24	12	80%		
LED12W-16-C0700	700	11.2-16	11.2	79%		
LED12W-16-C0800	800	8-16	12.8	79%		
LED12W-12-C1000	1000	6-12	12	78%		

Constant Voltage - Product Specifications					
Model Number	Output Voltage (Vdc ±5%)	Output Current Range (mA)	Max. Output Power (W)	Typical Efficiency	
LED12W-16	16	200-800	12.8	79%	
LED12W-36	36	88-350	12.6	81%	
LED12W-48	48	62-250	12	82%	
LED12W-12 •	12	250-1000	12	78%	
LED12W-24 •	24	125-500	12	80%	

Indicates S.A.M.







Class 2: US/Canada US Only

LED drivers are designed and intended to operate LED loads only. Non-LED loading may be outside the specified design limits of our LED drivers, 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.

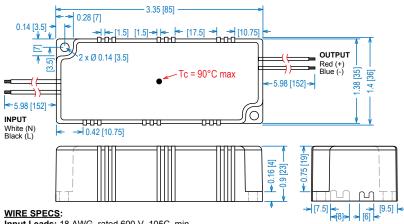
Safety and EMC Compliance			
UL/CUL	UL8750		
CSA	22.2		
CE	EN61347		
FCC, 47CFR Part 15	Class B		

Rev 8-26-15

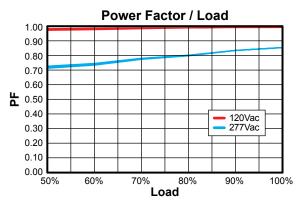


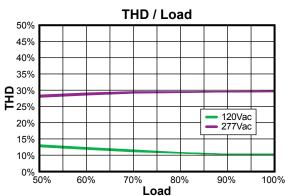


Dimensions - IN[mm]

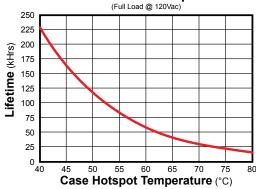


Input Leads: 18 AWG, rated 600 V, 105C, min.
Output Leads: 18 AWG, rated 300 V, 105C, min.
All wires are stranded with solder dipped ends.





Lifetime / Case Temperature (Full Load @ 120Vac)



Note:

Life calculations are based on reliability with confidence using a 90% confidence level and <5% failure rate. At a confidence level of 90% it is expected that <5% of the parts will fail at the rated life provided. (Failure is defined as a driver drifting outside specification, rather than fail to operate)