



250W TRV-250 Series

Switch Mode LED Drivers

Constant Voltage

Aluminum Housing

Electrical Specifications

Input Voltage Range:	100 - 277 Nom. Vac (90 - 305 V Min/Max)
Frequency:	50/60 Hz Nom. (47-63 Hz Min/Max)
Power Factor:	>0.90 @ full load, 100V through 277V
Input Current:	2.80 A @ 100Vac typical
Maximum Power:	250W
Line Regulation:	± 1%
Load Regulation:	± 3%
Typical Efficiency	92-94% @ full load
Turn-on Delay:	0.4S @ 110V, 1.0S @ 220V
Protection:	Over-Voltage, Over-Current, Over-Temperature (120°C), and Short Circuit Protection with Auto Recovery

Environmental Specifications

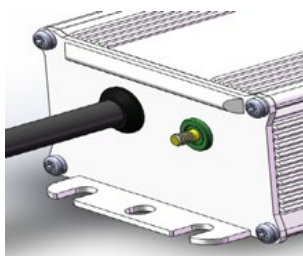
Minimum Starting Temp:	-40°C
Maximum Case Temp.	90°C
Storage Temperature:	-40°C to +85°C
Humidity:	5% to 100%
Cooling:	Convection
Sound Rating:	Class A
MTBF:	250,000 Hours @ 25°C, 80% load, 220V input, per MIL-HDBK-217F
Lifetime:	Vo = 12V, 59,400 Hours Vo = 42V, 120,000 Hours



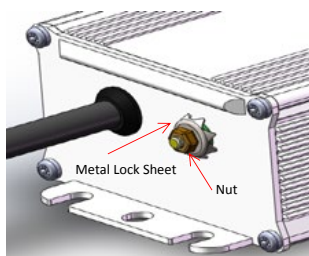
- Total Power: 250 Watts
- Input Voltage: 100-277 Vac Nom.
- UL Dry & Damp Location Rated
- IP67
- Ultra-high Efficiency
- High Power Factor
- UL8750

Part Number	Output Current Range (A)	Output Voltage (Vdc±5%)	Max Output Power (W)	Typical Efficiency
TRV-250S012ST	0-18.33	12	250	93%
TRV-250S024ST	0-10.41	24	250	96%
TRV-250S028ST	0-8.93	28	250	92%
TRV-250S036ST	0-6.94	36	250	96%
TRV-250S042ST	0-5.95	42	250	96%
TRV-250S048ST	0-5.20	48	250	96%
TRV-250S054ST	0-4.62	54	250	96%

New Surge Protection and HI-POT Testing



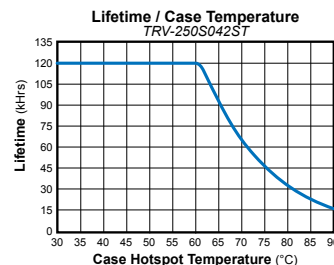
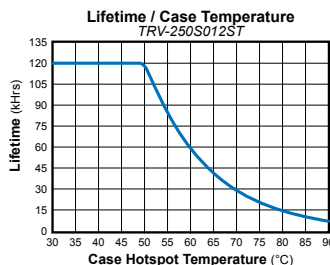
HI-POT Test



Normal Application

The new design of this LED driver provides 1.4KV surge protection. To properly HI-POT test this unit, the surge protection must be disconnected. The screw, nut, and metal lock sheet on the input side of the driver provide for this. To test, first remove the nut and lock sheet as shown. After testing, secure the nut and lock sheet to provide line-to-earth protection.

This HI-POT test feature is available on product manufactured after August 15, 2015.



Safety Cert.	Standard
UL/CUL	UL 8750, UL1012, CSA-C22.2 N. 107.1
CE	EN 61347-1, EN61347-2-13
EMC Std.	Notes
EN 55015	Conducted emission test & radiated emission test
EN 61000-3-2	Harmonic current emissions
EN 61000-3-3	Voltage fluctuations and flicker
EN 61000-4-2	Electrostatic discharge (ESD); 8kV air discharge, 4kV contact discharge
EN 61000-4-3	RFE Field Susceptibility test-RS
EN 61000-4-4	Electrical Fast Transient / Burst-EFT
EN 61000-4-5	Surge Immunity test: AC power line: line to line 4kV, line to earth 6kV
EN 61000-4-6	Conducted Radio Frequency Disturbances test-CS
EN 61000-4-8	Power Frequency Magnetic Field Test
EN 61000-4-11	Voltage Dips
EN 61547	Electromagnetic Immunity Requirements applies to lighting equipment



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 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.

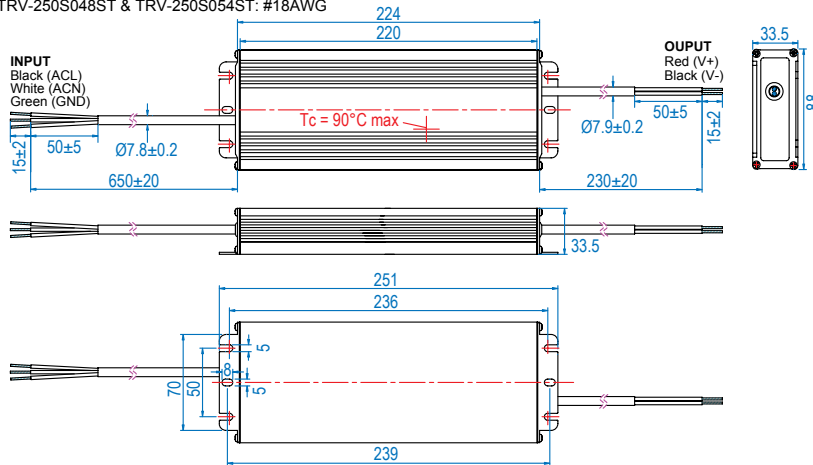
Specifications subject to change without notice.

Rev 10-13-16



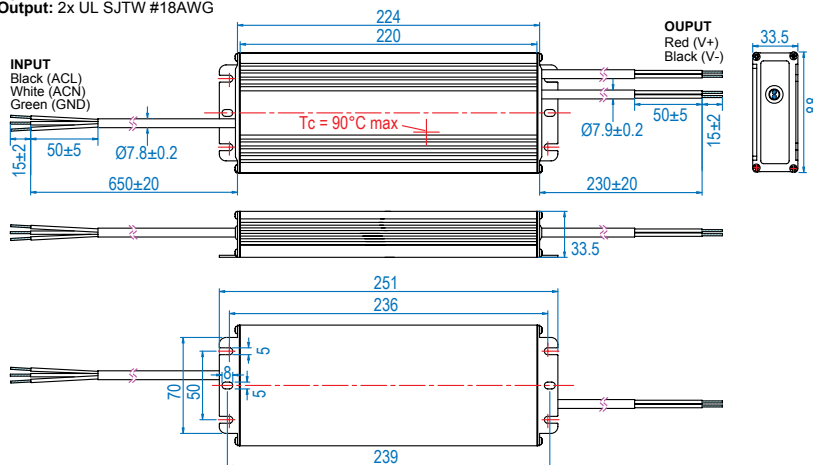
WIRE SPECS:

AC Input: UL SJTW #18AWG
 DC Output: UL SJTW
 TRV-250S028ST: #14AWG
 TRV-250S042ST: #16AWG
 TRV-250S048ST & TRV-250S054ST: #18AWG



TRV-250S024ST & TRV-250S036ST WIRE SPECS:

AC Input: UL SJTW #18AWG
 DC Output: 2x UL SJTW #18AWG



TRV-250S012ST WIRE SPECS:

AC Input: UL SJTW #18AWG
 DC Output: 3x UL SJTW #18AWG

