



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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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

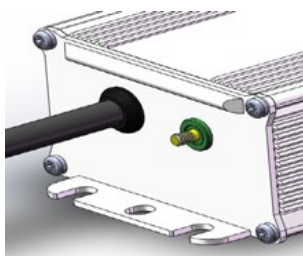
| | |
|------------------------|---|
| Minimum Starting Temp: | -40°C |
| Maximum Case Temp. | 90°C |
| Storage Temperature: | -40°C to +85°C |
| Humidity: | 5% to 100% |
| Cooling: | Convection |
| Sound Rating: | Class A |
| MTBF: | 250,000 Hours @ 25°C, 80% load, 220V input, per MIL-HDBK-217F |
|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



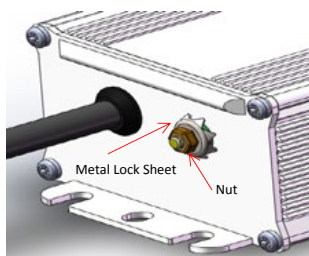
- Total Power: 250 Watts
- Input Voltage: 100-277 Vac Nom.
- UL Dry & Damp Location Rated
- IP67
- Ultra-high Efficiency
- High Power Factor
- UL8750

| 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



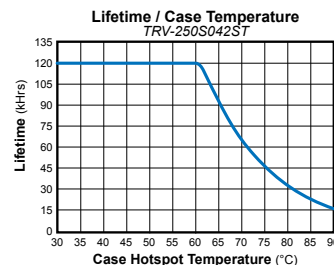
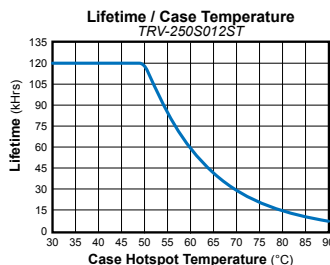
HI-POT Test



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.

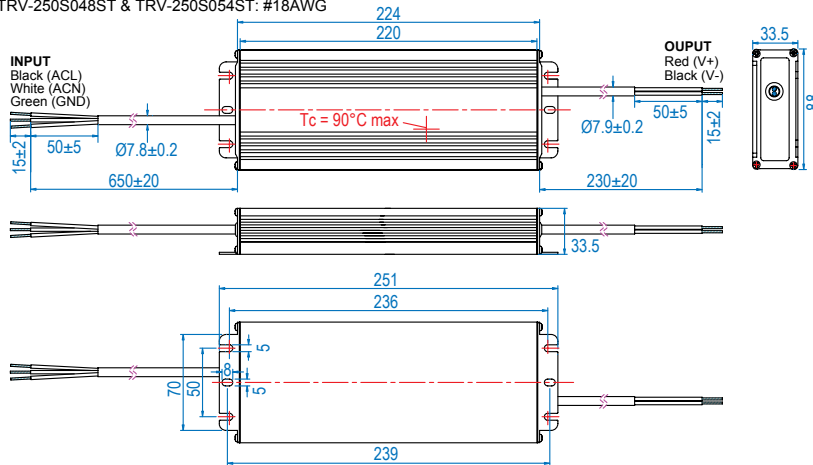
Specifications subject to change without notice.

Rev 10-13-16



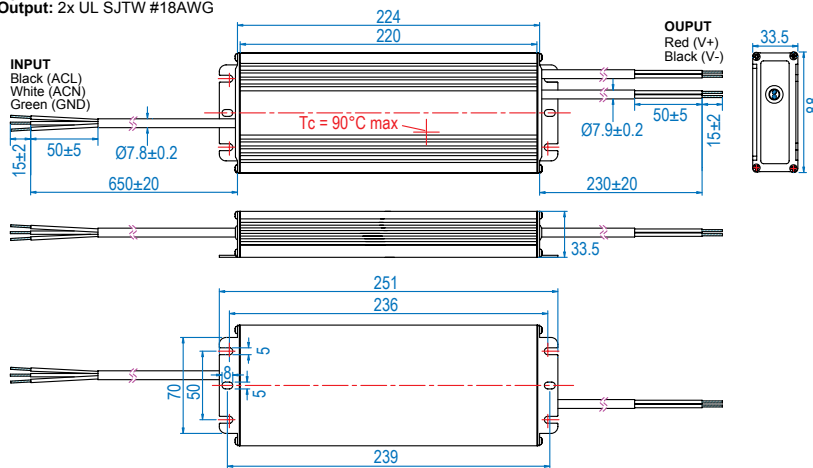
WIRE SPECS:

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

