



# Thomas Research Products

SSL Solutions Faster Than The Speed Of Light®

**300W TRV-300 Series**  
**Switch Mode LED Drivers**  
**Constant Voltage**  
**Aluminum Housing**

**Total Power: 300 Watts**  
**Input Voltage: 100-277 Vac**  
**Single Output: 12-54 Vdc**  
**Indoor or Outdoor Applications, IP67**  
**Ultra High Efficiency**  
**High Power Factor**  
**UL8750**

## 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:** 3.30 A @ 100Vac  
**Inrush Current:** 50.0 A @ 230 Vac  
**Maximum Power:** 300W  
**Line Regulation:** ± 1%  
**Load Regulation:** ± 3%  
**Typical Efficiency** 91-94% @ full load  
**Turn-on Delay:** 0.25S  
**Protection:** Over-Voltage, Over-Current, Over-Temperature (110°C), and Short Circuit Protection with Auto Recovery

## Environmental Specifications

**Operating Temperature:** -35°C to +70°C  
**Storage Temperature:** -40°C to +85°C  
**Humidity:** 10% to 100%  
**Cooling:** Convection  
**MTBF:** 250,000 Hours @ 25°C, 80% load, per MIL-HDBK-217F  
**Lifetime:** 100,000 Hours @ 80% load and Tc = 70°C



## Constant Voltage - Product Specifications

Model Number	Output Voltage (Vdc ±5%)	Output Current Range (mA)	Max. Output Power (W)	Typical Efficiency
TRV-300S012ST	12	0-22.9	275	91.5%
TRV-300S024ST	24	0-12.5	300	91.0%
TRV-300S028ST	28	0-10.71	300	91.5%
TRV-300S036ST	36	0-8.33	300	92.0%
TRV-300S048ST	48	0-6.25	300	94.0%
TRV-300S054ST	54	0-5.55	300	94.0%



**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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