



Thomas Research Products

SSL Solutions Faster Than The Speed Of Light®

75W TRV-075 Series

Switch Mode LED Drivers
Constant Voltage
Aluminum Housing

Total Power: 75 Watts

Input Voltage: 100-277 Vac

Outputs: Single from 12-105 Vdc

Indoor or Outdoor Applications, IP67

UL Rated For: Dry, Damp and Wet Locations

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:	0.85 min @ 100V through 277V, 75-100% load
Input Current:	0.88 A max 100Vac
Maximum Power:	75W
Line Regulation:	± 1%
Load Regulation:	± 2%
Turn-on Delay:	1.2S max @ 120V
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
Maximum Case Temp:	88°C
Minimum Starting Temp:	-35°C
Storage Temperature:	-40°C to +85°C
Humidity:	5% to 100%
Cooling:	Convection
Vibration Frequency:	5 to 55 Hz/2g, 30 minutes
MTBF:	350,000 Hours @ full load and 25°C ambient conditions per MIL-HDBK-217F
Lifetime:	83,000 Hours @ 220V, 80% load, 25°C ambient



Model Number	Output Current Range (A)	Output Voltage (Vdc)	Max. Output Power (W)	Typical Efficiency
TRV-075S012ST	0-6.25	12	75	90%
TRV-075S024ST	0-3.13	24	75	92%
TRV-075S036ST	0-2.08	36	75	92%
TRV-075S042ST	0-1.79	42	75	92%
TRV-075S048ST	0-1.56	48	75	92%
TRV-075S054ST	0-1.39	54	75	92%



IP67

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.

5-21-13

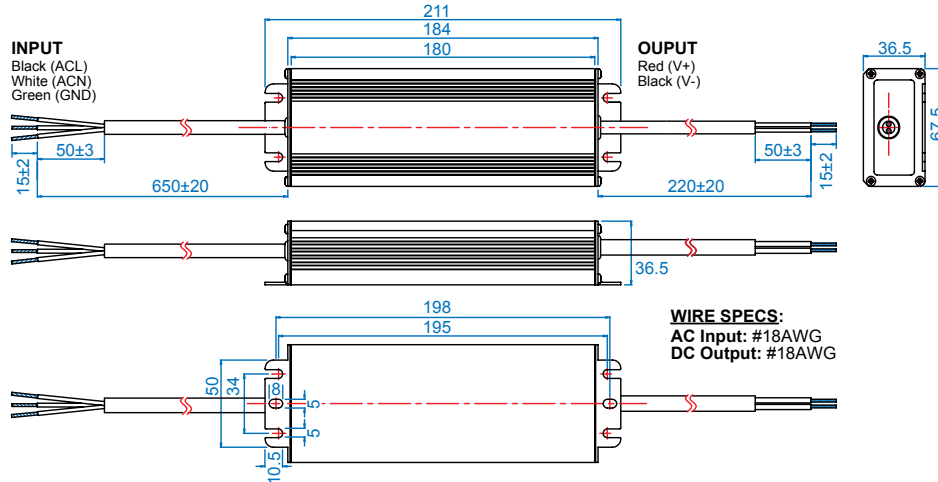


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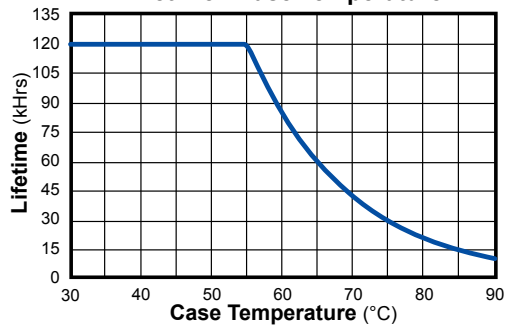
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TRV-075

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Lifetime / Case Temperature



Safety and EMC Compliance

CUL / CE	UL 8750, EN 61347-1, EN61347-2-13
EN 55015	Conducted emission
EN 61000-3-2	Harmonic current emissions
EN 61000-3-3	Voltage fluctuations and flicker
EN 61000-4-2	Electrostatic discharge
EN 61000-4-3	RFE Field Susceptibility test
EN 61000-4-4	Electrical Fast Transient
EN 61000-4-5	Surge Immunity test
EN 61000-4-6	Conducted Radio Frequency
EN 61000-4-8	Power Frequency Magnetic Field Test
EN 61000-4-11	Voltage Dips
EN 61547	Electromagnetic Immunity