



Thomas Research Products

SSL Solutions Faster Than The Speed Of Light®

75W TRC-075 Series

Switch Mode LED Drivers - Constant Current

Total Power: 75 Watts
Input Voltage: 100-277 Vac, 50/60 Hz
Outputs: Single from 7-214 Vdc
High Efficiency
Wet Location Rated, IP67 Compliant
High Power Factor
UL8750 and EN61347 Certified

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:	0.90 A @ 100VAC
Efficiency:	90% typical @ maximum load
Maximum Power:	75W
Line Regulation:	± 1%
Load Regulation:	± 3%
Turn-on Time Delay:	0.8S typical or 1.2S max @ 120V, 0.4S typical or 0.6S max @ 277V
Protection:	Over-Voltage, Output Over-Current, Over-Temperature, Output Short Circuit Protection with Auto Recovery

Environmental Specifications

Operating Temperature:	-40°C to +70°C
Maximum Case Temp.	87°C
Min Operating Temp:	-40°C
Storage Temperature:	-40°C to +85°C
Humidity:	10% to 100%
Cooling:	Convection
MTBF:	320,000 Hours @ full load and 25°C ambient conditions per MIL-HDBK-217F
Lifetime:	107,000 Hours @ Tc=60°C, 80% load, 110Vac
Weight:	1.65 lbs (750 g)



Model Number	Output Current (mA ±5%)	Output Voltage Range (Vdc)	Max. Output Power (W)	Max Efficiency
TRC-075S035ST	350	107-214	75	90%
TRC-075S045ST	450	83-166	75	90%
TRC-075S070ST	700	54-108	75	90%
TRC-075S105ST	1050	36-72	75	89%
TRC-075S140ST	1400	27-54	75	89%
TRC-075S210ST	2100	18-36	75	88%
TRC-075S280ST	2800	13-27	75	88%
TRC-075S375ST	3750	10-20	75	87%
TRC-075S500ST	5000	7-15	75	87%

Class 2: US/Canada US Only



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.

12-03-13

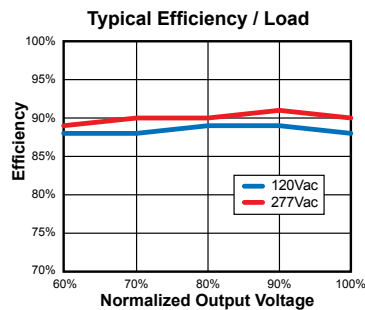
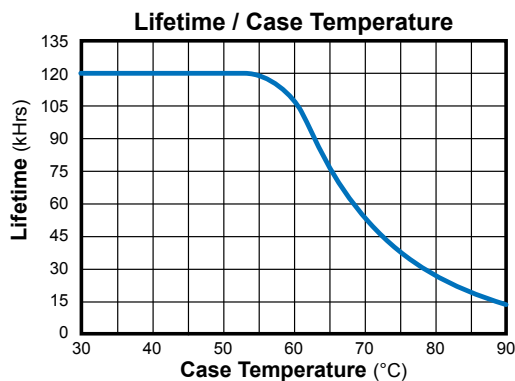
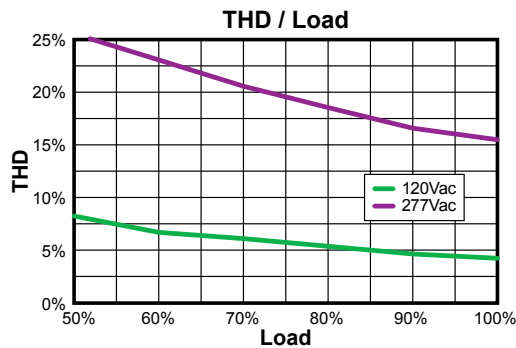
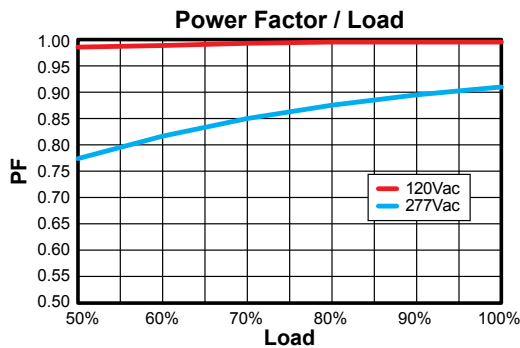
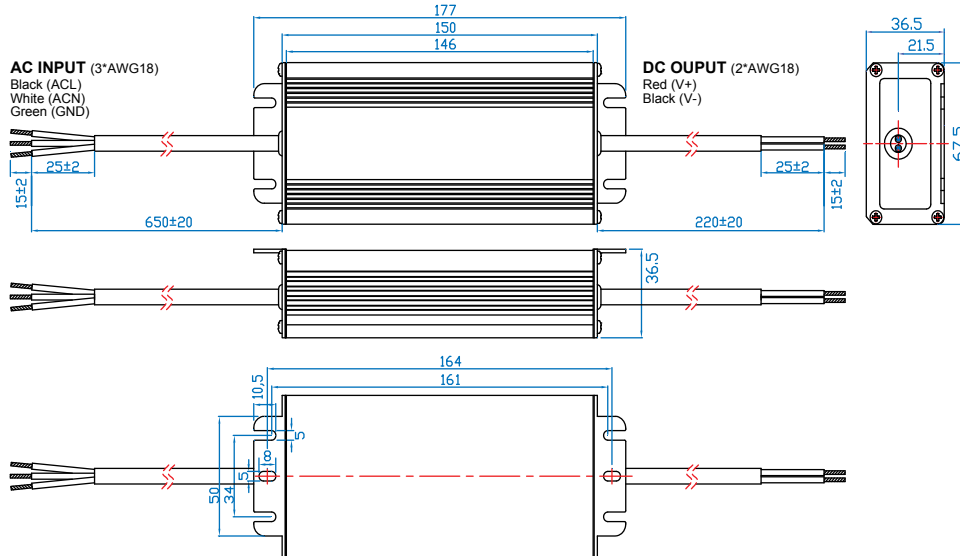


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Safety and EMC Compliance	
CUL	UL 8750,
CE	EN 61347-1, EN61347-2-13
EN 55015	Conducted emission
EN 61000-3-2	Harmonic current emissions
EN 61000-3-3	Voltage fluctuations and flicker
EN 61000-4-2	Electrostatic discharge
EN 61000-4-3	RFE Field Susceptibility test
EN 61000-4-4	Electrical Fast Transient
EN 61000-4-5	Surge Immunity Test, AC Power Line: line to line 4 kV; line to earth 6 kV
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