



Thomas Research Products

SSL Solutions Faster Than The Speed Of Light®

60W TRC-060 Series

Switch Mode LED Drivers,
Constant Current

Total Power: 60 Watts
Input Voltage: 100-277 Vac, 50/60 Hz
Outputs: Single from 6-170 Vdc
High Efficiency
Indoor or Outdoor Applications, IP67 Compliant
High Power Factor
Input/Output Protection & Lightning Protection
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
Inrush Current:	60 A @ 230Vac
Input Current:	0.80 A @ 100Vac, 0.36 A @ 220Vac
Maximum Power:	60W
Line Regulation:	± 1%
Load Regulation:	± 3%
Typical Efficiency	87-91% typical @ maximum load
Protection:	Over-Voltage, Output Over-Current, Over-Temperature, Output Short Circuit Protection with Auto Recovery

Environmental Specifications

Operating Temperature:	-35°C to +70°C
Maximum Case Temp.	88°C
Storage Temperature:	-40°C to +85°C
Humidity:	10% to 100%
Cooling:	Convection
MTBF:	546,000 Hours @ 25°C, 80% load, 110VAC input on 2300 mA output model
Lifetime:	80,000 Hours @ 45°C, 80% load, 110VAC input on 2300 mA output model
EMC:	FCC 47CFR Part 15 Class B



Model Number	Output Current (mA)	Output Voltage Range (Vdc)	Max. Output Power (W)	Typical Efficiency
TRC-060S035ST	350	85-170	59.5	90%
TRC-060S045ST	450	67-134	60	90%
TRC-060S070ST	700	43-86	60	90%
TRC-060S105ST	1050	29-58	60	89%
TRC-060S140ST	1400	21-43	60	89%
TRC-060S170ST	1700	18-36	60	89%
TRC-060S230ST	2300	13-27	60	88%
TRC-060S330ST	3300	9-18	59.5	88%
TRC-060S500ST	5000	6-12	60	87%

Class 2: US/Canada US Only



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

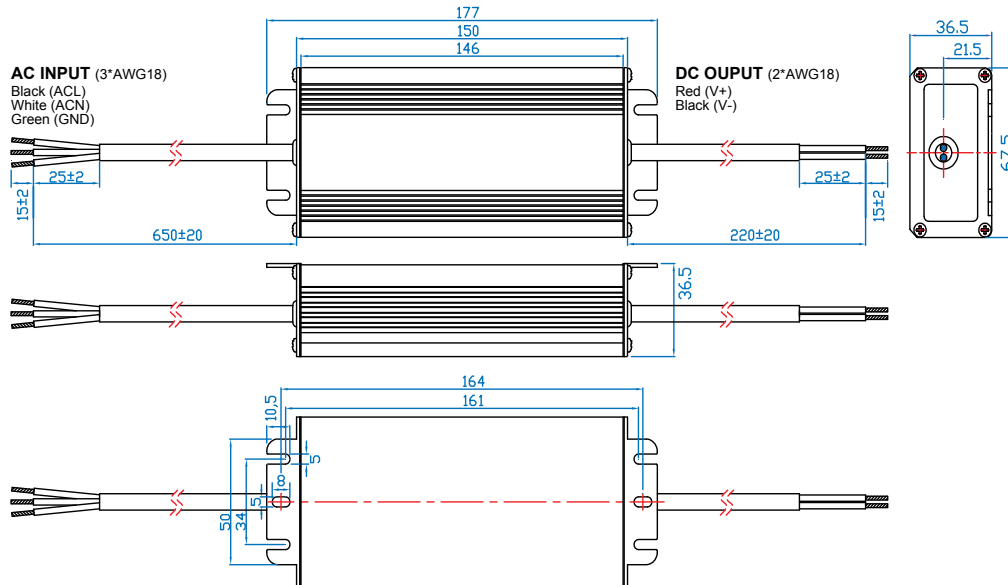


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Safety and EMC Compliance

CUL CE	UL 8750, Compliance to UL1310, Class 2 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