



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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Thomas Research Products

SSL Solutions Faster Than The Speed Of Light®

50W TRC-050S110SC

Switch Mode LED Drivers - Constant Current

Total Power: 50 Watts
Input Voltage: 100-277 Vac, 50/60 Hz
Outputs: Single from 4-142 Vdc
High Efficiency
Indoor or Outdoor Applications, IP67
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) or 108-250 Vdc
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: 0.54 A @ 100 Vac, 0.35 A @ 220 Vac
Maximum Power: 50W
Line Regulation: ± 3%
Load Regulation: ± 5%
Protection: Over-Voltage, Over-Current, Over-Temperature, Short Circuit Protection with Auto Recovery

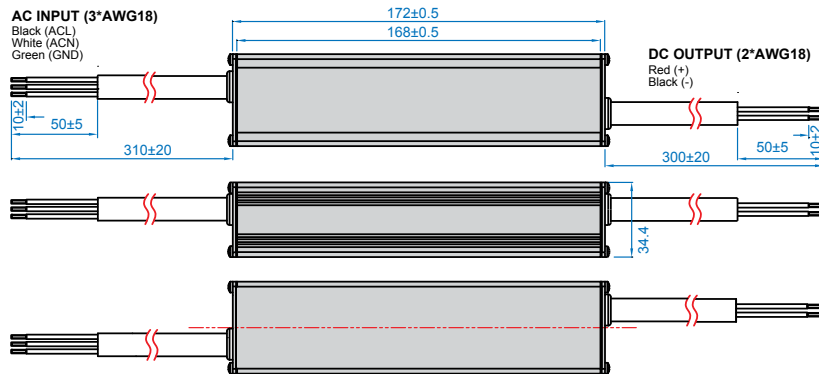
Environmental Specifications

Operating Temperature: -35°C to +90°C
Maximum Case Temp. 90°C
Storage Temperature: -40°C to +85°C
Humidity: 10% to 100%
Cooling: Convection
MTBF: 487,000 Hours @ 25°C, 80% load, 110Vac input
Lifetime: 66,000 Hours @ 45°C, 80% load, 110Vac input



Part Number	Output Current (mA)	Output Voltage Range (Vdc)	Output Power Max (W)	Typical Efficiency
TRC-050S110SC	1100	14-40	50W	90%

Class 2: US/Canada

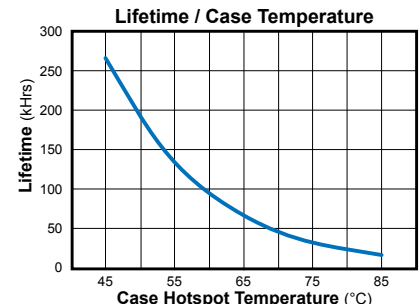


Safety and EMC Compliance	
CUL CE	UL 8750, Compliance to UL1310, Class 2 EN 61347-1, EN61347-2-13
EN 55015	Conducted emission
EN 61000-3-2	Harmonic current emissions
EN 61000-3-3	Voltage fluctuations and flicker
EN 61000-4-2	Electrostatic discharge
EN 61000-4-3	RFE Field Susceptibility test
EN 61000-4-4	Electrical Fast Transient
EN 61000-4-5	Surge Immunity test: AC Power Line; Line to line 2kV, Line to ground 4kV
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



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