Thomas Research Products

Innovative & Energy Saving Lighting Controls

35W TRV Series - Long Life

Switch Mode LED Drivers - Constant Voltage
Long Life Model

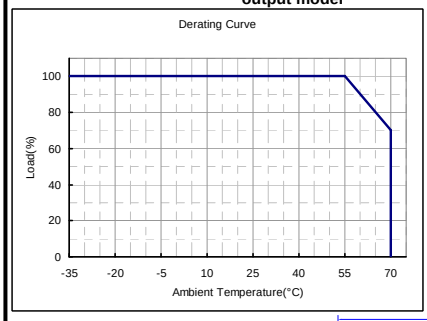
Total Power: 35 Watts
Input Voltage: 90-305 VAC, 50/60 Hz
High Efficiency - 82% to 86%
Active Power Factor Correction - 92-99%
Waterproof IP67 Compliant
Input and Output Protection
UL 8750 and EN61347 Certified

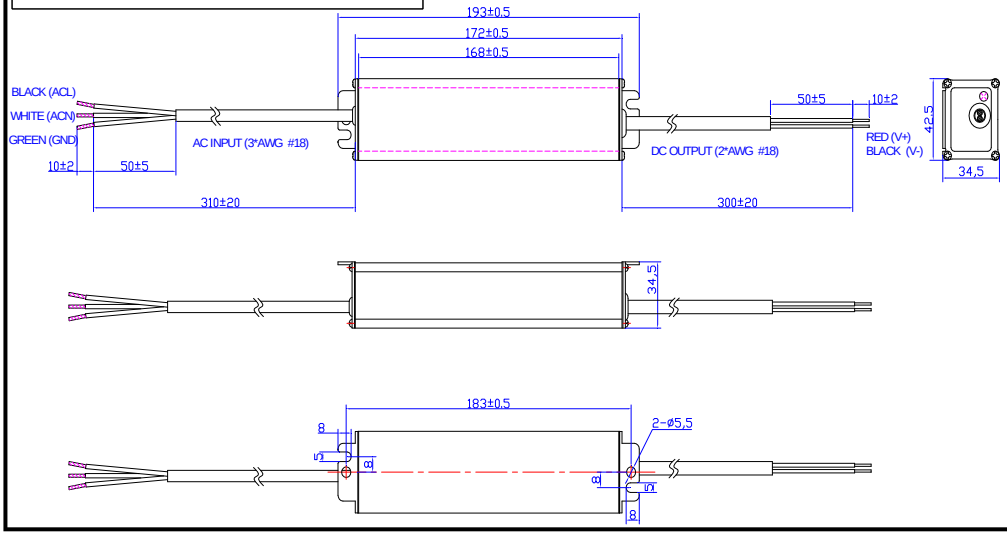
Electrical Specifications

Input Voltage Range:	**90 - 305 VAC - 47 to 63 Hz**
Power Factor:	**99% @ 110 VAC, 92% @ 220 VAC**
Input Current:	**0.49 A @ 100 VAC, 0.25 A @ 220 VAC**
Inrush Current:	**20 A at 230 VAC, 25ºC Cold Start**
Efficiency:	**82-86% typical at maximum load**
Line Regulation	**3%**
Load Regulation:	**10%**
Protection:	**Output Over-Voltage, Output Over-Current, Output Short Circuit Protection with Auto Recovery**

Environmental Specifications

Operating Temperature:	**-35ºC to +70ºC - 10% to 100% Relative Humidity Derating 2% per ºC from 55ºC to 70ºC**
Maximum Case Temp.	**90°C**
Storage Temperature:	**-40ºC to +85ºC**
Cooling:	**Convection**
MTBF:	**541,000 Hours @ 25ºC Ambient, 80% Load, 110VAC on 12V output model (MIL-HDBK-217F)**
Lifetime	**87,000 Hours @ 45ºC Ambient, 80% Load, 110VAC on 12V output model**





Output Voltage	Output Current Max	Max Output Power	Typical Efficiency Full Load, 220 VAC	Part Number
12V	2900 mA	35W	82%	TRV-035S012ST
18V	1900 mA	35W	83%	TRV-035S018ST
24V	1460 mA	35W	85%	TRV-035S024ST
36V	970 mA	35W	86%	TRV-035S036ST
48V	730 mA	35W	86%	TRV-035S048ST

Blue = Class 2 US/Canada Green = Class 2 US Only

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 Earth 4 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

RoHS Compliant **02-10-10**

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