200W TRC-200 Series

Switch Mode LED Drivers
Constant Current
Aluminum Housing

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:	**65 Amps maximum @ 230 Vac, cold start 25ºC**
Input Current:	**2.4 A max 100Vac, 1.2 A max 220Vac**
Maximum Power:	**200W**
Line Regulation:	**± 1%**
Load Regulation:	**± 3%**
Leakage Current:	**1 mA 277 Vac 60Hz**
Typical Efficiency	**89-91% at 277Vac**
Turn-on Delay:	**0.5S typical 110Vac, 0.3S typical 220Vac**
Ripple and Noise:	**3% V_o**
Protection:	**Over-Voltage, Over-Temperature (110°C), Lightning, and Short Circuit Protection with Self Recovery**

Environmental Specifications

Minimum Starting Temp:	**-35ºC**
Storage Temperature:	**-40ºC to +85ºC**
Humidity:	**5% to 100%**
Cooling:	**Convection**
Sound Rating:	**Class A**
MTBF:	**330,000 Hours (450 mA model) @ 110Vac input, 80% load and 25ºC ambient conditions per MIL-HDBK-217F**
Lifetime:	**60,000 Hours @ 220Vac, 80% load and 45ºC ambient**
Weight:	**3.31 lbs. (1.5 kg)**

- Total Power: 120 Watts
- Input Voltage: 100-277 Vac Nom.
- UL Dry & Damp Location Rated
- IP67
- High Efficiency
- High Power Factor with Active Correction
- Output and Lightning Protection

Safety and EMC Compliance	
UL/CUL	UL8750, Compliance to UL1012, CAN/CSA-C22.2 No. 0, CSA-C22.2 No. 107.1-01, CSA-C22.2 No. 250.0
C E	EN 61347-1, EN61347-2-13
EN 55015	Conducted emission Test & Radiated emission Test
EN 61000-3-2	Harmonic current emissions
EN 61000-3-3	Voltage fluctuations & flicker
EN 61000-4-2	Electrostatic Discharge (ESD): 8 kV air discharge, 4 kV contact discharge
EN 61000-4-3	Radio-Frequency Electromagnetic Field Susceptibility Test-RS
EN 61000-4-4	Electrical Fast Transient / Burst-EFT
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 Disturbances Test-CS
EN 61000-4-8	Power Frequency Magnetic Field Test
EN 61000-4-11	Voltage Dips
EN 61547	Electromagnetic Immunity Requirements Applies to Lighting Equipment

Standard Versions - Product Specifications

Model Number	Output Current *(mA)**	Output Voltage Range *(Vdc)*	Max. Output Power *(W)*	Typical Efficiency
TRC-200S045ST	450	267-445	200	93%
TRC-200S070ST	700	171-285	200	93%
TRC-200S105ST	1050	114-190	200	92%
TRC-200S140ST	1400	85-142	200	92%
TRC-200S175ST	1750	68-114	200	92%
TRC-200S210ST	2100	57-95	200	91%
TRC-200S245ST	2450	48-81	200	91%
TRC-200S280ST	2800	42-71	200	91%
TRC-200S315ST	3150	38-63	200	91%
TRC-200S350ST	3500	34-57	200	90%
TRC-200S420ST	4200	28-47	200	90%
TRC-200S490ST	4900	24-40	200	90%
TRC-200S560ST	5600	21-35	200	89%
TRC-200S630ST	6300	19-32	200	89%
TRC-200S833ST	8330	14-24 Vc	200	88%

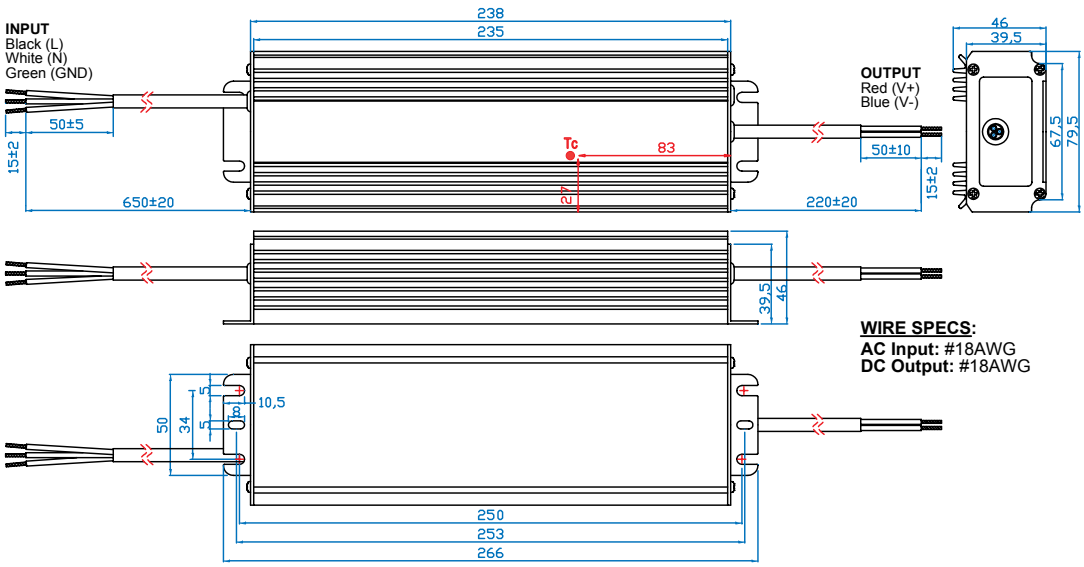
* The output current is adjustable at factory from 50% to 100%.

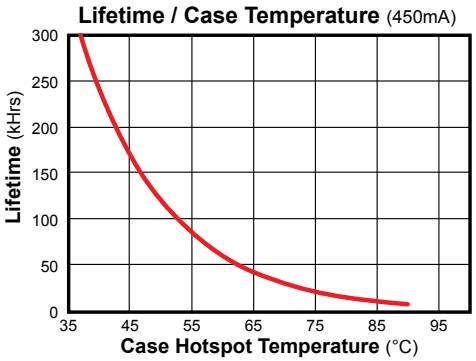
c UL us E332160 CE RoHS IP67

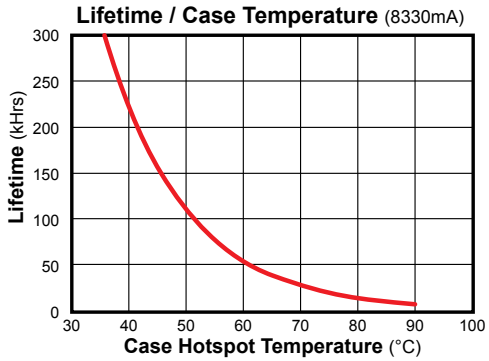
Note:
LED drivers are designed and intended to operate LED loads only. Non-LED loading may be outside the specified design limits of our LED drivers, and therefore cannot be covered by any warranty. If you desire to use our LED drivers to operate non-LED loads please contact us to discuss compatibility.

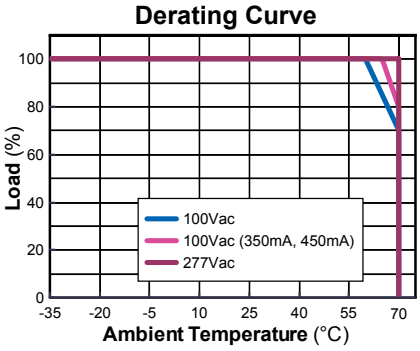
Specifications subject to change without notice.

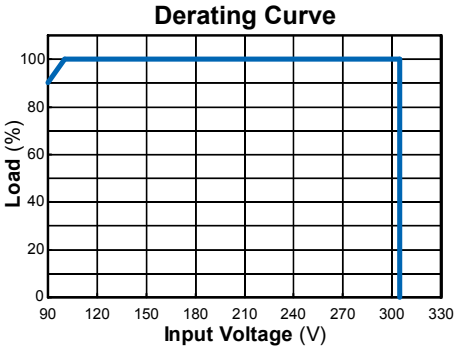
Rev 9-1-15

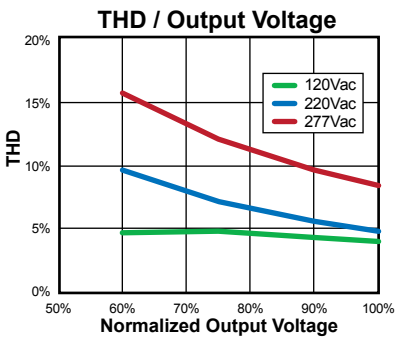

INPUT
Black (L)
White (N)
Green (GND)
OUTPUT
Red (V+)
Blue (V-)
238
235
46
39,5
50±5
15±2
650±20
Tc
83
27
50±10
220±20
67,5
79,5
39,5
46
WIRE SPECS:
AC Input: #18AWG
DC Output: #18AWG
10,5
50
34
250
253
266


Lifetime / Case Temperature (450mA)
Lifetime (kHrs)
Case Hotspot Temperature (°C)


Lifetime / Case Temperature (8330mA)
Lifetime (kHrs)
Case Hotspot Temperature (°C)


Derating Curve
Load (%)
100Vac
100Vac (350mA, 450mA)
277Vac
Ambient Temperature (°C)


Derating Curve
Load (%)
Input Voltage (V)


THD / Output Voltage
THD
120Vac
220Vac
277Vac
Normalized Output Voltage