



Distributed by Sunlux

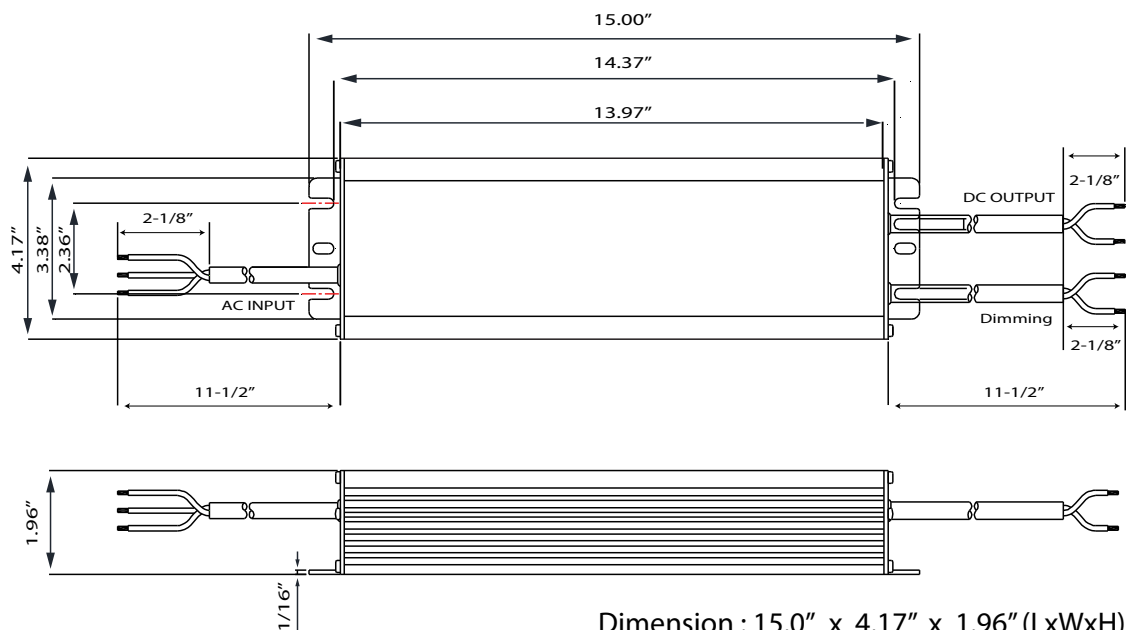


Product Features

- Universal input voltage / Full range: 108~305Vac
- Constant power Design, output current programming adjustable
- Constant lumen output
- 3-in-1 dimmable: 0~10Vdc/PWM/Timer dimming (Dim-to-off)
- Auxiliary power supply: 12V/300mA
- Surge protection: 6KV Line-Line, 10KV Line-Earth
- Protections: SCP/OVP/OTP
- IP67 design for indoor and outdoor applications
- Metal case, suitable for dry, damp and wet locations
- 5 Years warranty
- Best use in, Horticulture Lighting, high power lighting etc.

Model N°	Max Output Power (W)	Output Volt. (Vdc)	Full Power Output Volt. (Vdc)	Full Power Current Adjustable (A)	Default Output Current Setting (A)	Typical Efficiency	Power Factor
P1-800M056ZP	800W	30-56V	48-56V	14.29-16.67A	16.67	95%	0.96

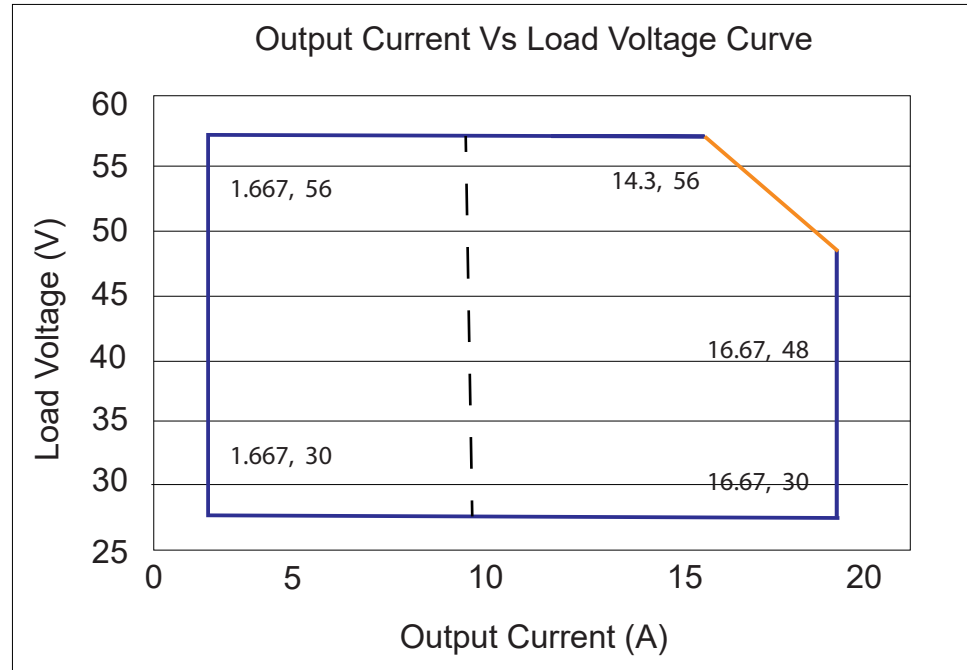
Physical



Dimension : 15.0" x 4.17" x 1.96" (LxWxH)

Weight : 7.93 ± 0.66 lbs

Operating Area



Note: The drivers are not allowed to work in overloaded condition, otherwise warranty will expire.

General Specifications

Parameter		Description			Notes
		Min.	Typ.	Max.	
Efficiency @120Vac Io: 16.67A		91.5%	93%	—	Measured at full load and 25°C - ambient temperature
Efficiency @230Vac Io: 16.67A		93.5%	95%	—	Measured at full load and 25°C - ambient temperature
Efficiency @277Vac Io: 16.67A		94%	95.5%	—	Measured at full load and 25°C - ambient temperature
Dielectric Strength	Input-Output	—	3750Vac	—	Maximum 5mA/60S
	Input-PE	—	1600Vac	—	
	Output-PE	—	1600Vac	—	
Grounding Resistance		—	—	0.1Ω	25A/60S, under 25°C ± 10°C ambient temperature
Insulation Resistance		10MΩ	—	—	Input-Output, Input-PE, Output-PE, 500Vdc/60S/25°C/70%RH
MTBF (Hr)		—	500000Hrs	—	Telcordia SR-332, 100% load, & Ta = 25°C
Lifetime (Hr)		—	72000Hrs	—	230Vac & 100% load, 75°C case temperature, refer to lifetime curve for details.
Ambient Temperature		-40°C	—	+50°C	Reference Detaring Curve
Operating Case Temp for Safety Tc_S		-40°C	—	+90°C	
Operating Case Temp for Warranty Tc_S		-40°C	—	+75°C	5 years warranty case temp. Humidity: 10% to 95% RH
Storage Temperature		-40°C	—	+85°C	Humidity: 5% to 100% RH
Working Elevation		-50m	—	4000m	
Net Weight		7.93 ±0.66 Lbs/pc			
Dimensions		15" * 4.17" * 1.96" (L*W*H)			

Input Specifications

Parameter	Description			Notes
	Min.	Typ.	Max.	
Input Voltage	108Vac	120-277Vac	305Vac	
Input Frequency	47Hz	50/60Hz	63Hz	
Leakage Current	–	–	0.75mA	277Vac / 60Hz
Input AC Current	–	–	8A	120-277Vac & Full load
Inrush Current	–	–	40A	277Vac & Full load
Standby Power Consumption	–	–	0.5W	Dim to off, AUX. Power no load
Power Factor	0.97	0.99	–	120Vac, 50/60Hz, full load
	0.95	0.97	–	230Vac, 50/60Hz, full load
	0.92	0.95	–	277Vac, 50/60Hz, full load
THD	–	5%	10%	120-230Vac, 50-60Hz, 70%-100% load
	–	–	20%	277Vac, 50-60Hz, 70%-100% load

Output Specifications

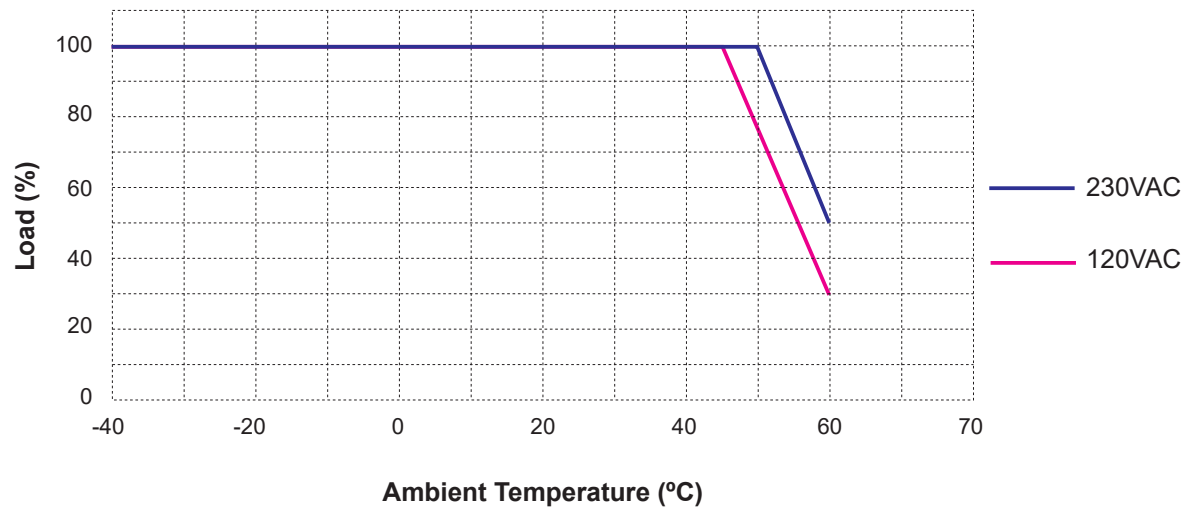
Parameter	Description			Notes
	Min.	Typ.	Max.	
Output Current Tolerance	-5%	–	5%	
Output Current Setting Range (A)	1.667	–	16.67	
Total output Current Ripple (Pk-Pk)	–	± 5%	± 10%	20MHz BW, Full load & LED load ripple would be tiny different under different LED load.
Starup Overshoot Current (%)	–	–	10%	120~277Vac & 100% load
Line Regulation	-1%	–	1%	25°C± 10°C ambient temperature, input voltage changes from 120Vac to 277Vac.
Load Regulation	-3%	–	3%	25°C± 10°C ambient temperature, input voltage 230Vac, load changes from 60% to 100%
Turn-on Delay time	–	–	1S	120-277Vac, 10-100% Vo
AUX. Power Output Current (mA)	0	300	–	
AUX. Power Output Voltage (V)	11.4	12	12.6	

Dimming Specifications

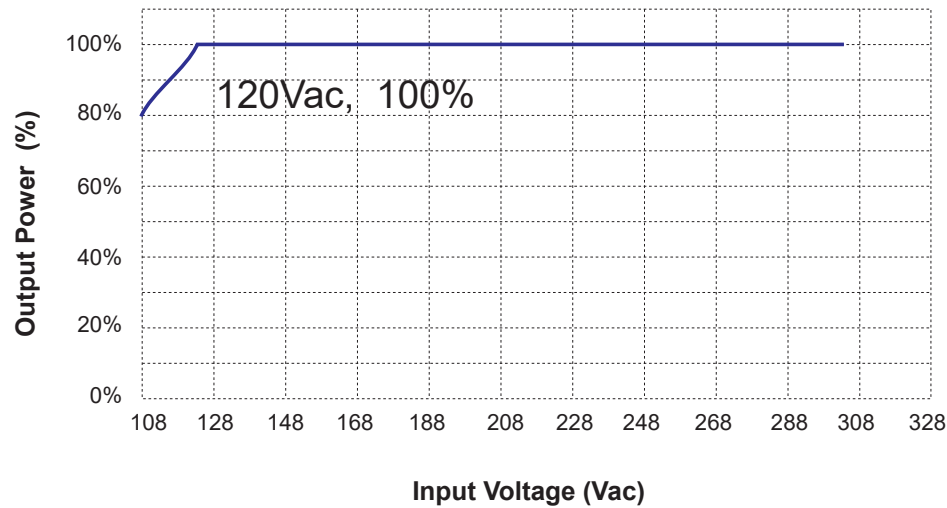
Parameter	Description			Notes
	Min.	Typ.	Max.	
0~10V Absolute Maximum Voltage on the Vdim (+) Pin	–	10V	–	
0~10V Source Current on Vdim (+) Pin (mA)	–	0.2	0.4	
Dimming Output Range	10%Imax	–	100%Imax	Imax = 16.67A
Recommended Dimming Range for 0-10V	0V	–	10V	Default 0-10V/PWM Dimming (0-10V, 0-9V, 0-5V, 0-3.3V Positive and Reverse Logic can be customized as request)
PWM_in high level	9.7V	–	10.5V	
PWM_in low level	0V	–	0.3V	
PWM_in frequency range	300Hz	–	2KHz	
PWM_in Duty Cycle	1%	–	99%	

Specification

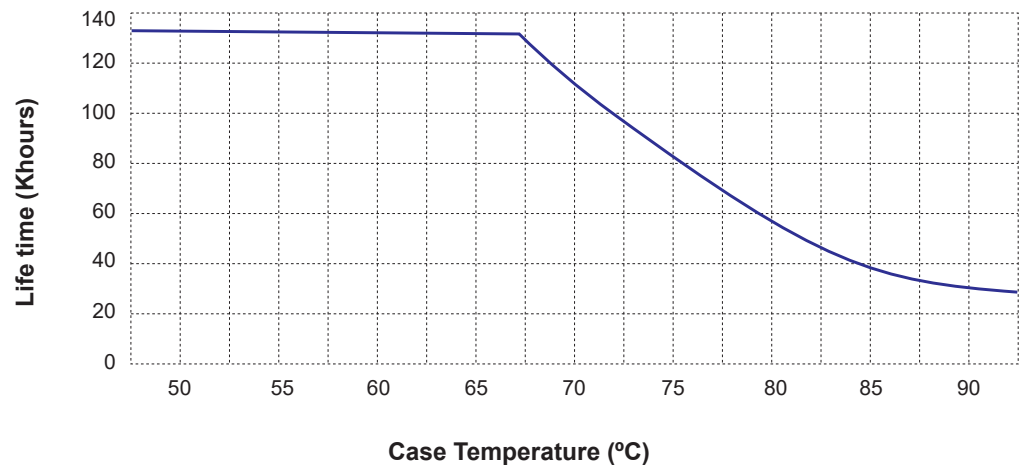
Derating Curve



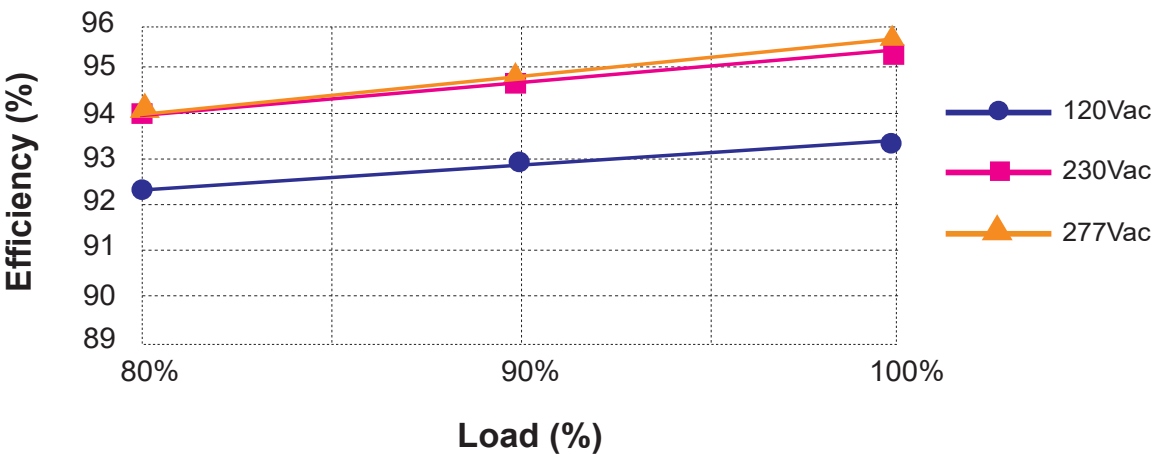
Output Power Vs Input Voltage



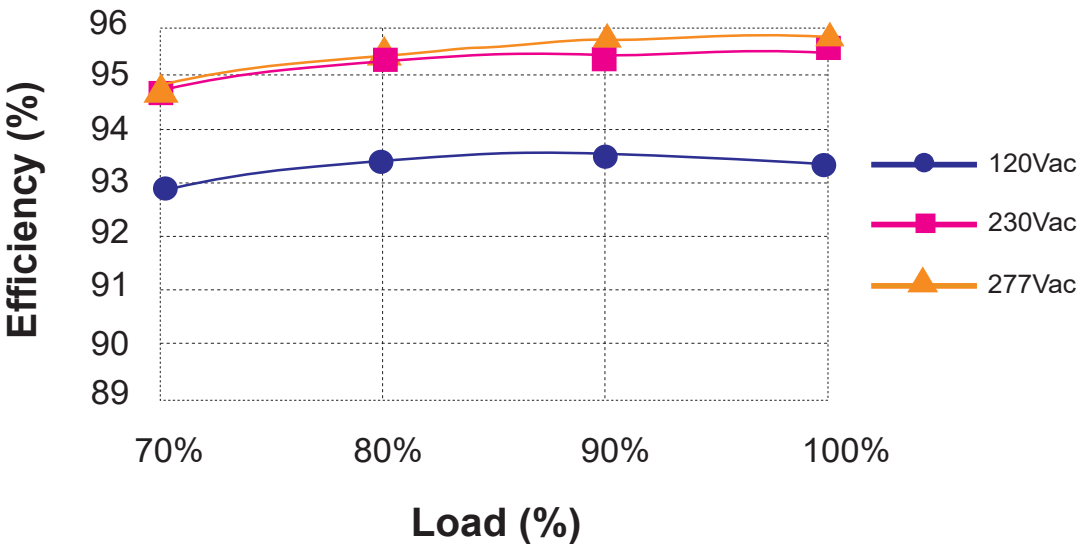
Lifetime Vs Case Temperature



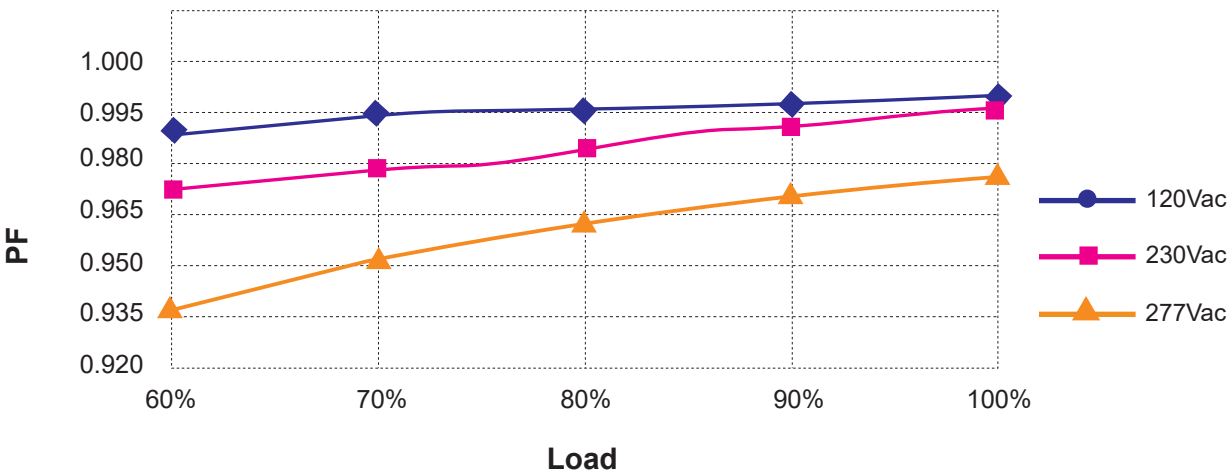
Efficiency Vs Load $I_o=16.67A$



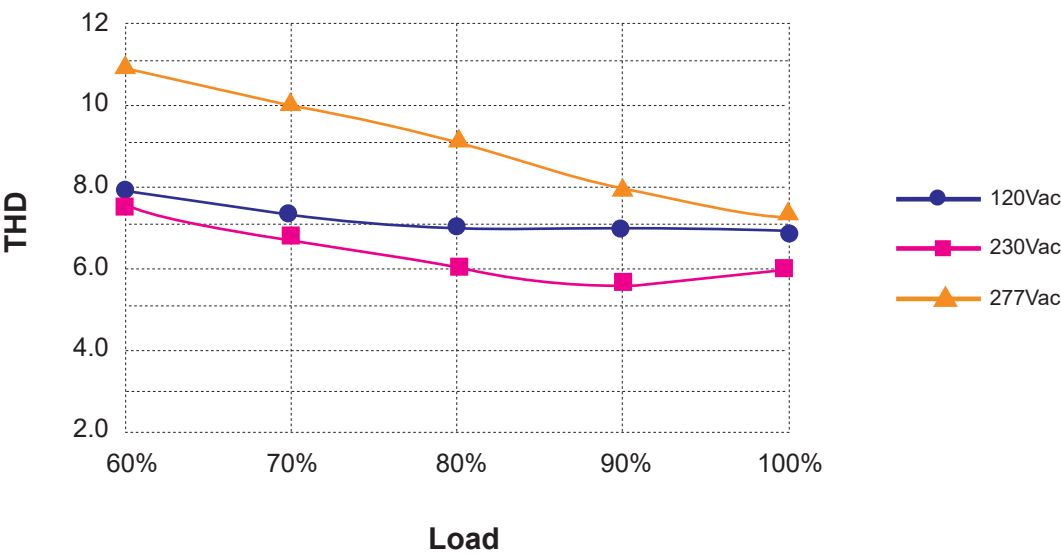
Efficiency Vs Load $I_o=14.29A$



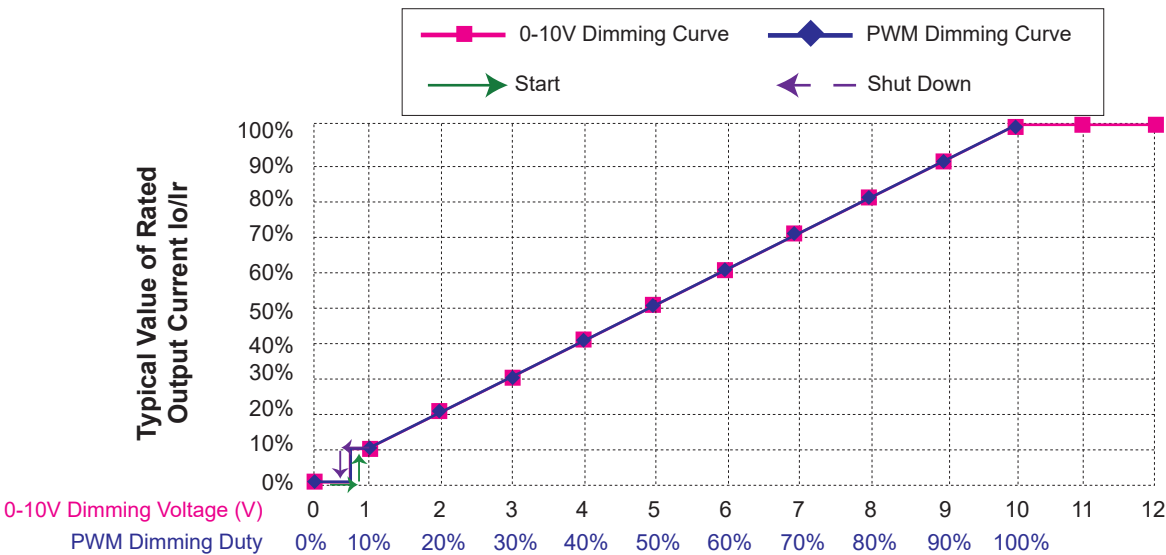
Power Factor Vs Load



Total Harmonic Distortion



0-10V/PWM Dimming Curve



Note: Dim to off model is realized by decreasing the output voltage, the power supply still has residual voltage when dim to off, so the start up voltage of the lamp should be higher than residual voltage

Protections

Parameter	Notes
Over Temperature Protection	Decreases output current, returning to normal after over temperature is removed.
Short Circuit Protection	Constant current mode and auto recovery. No damage will occur when any output is short circuited. The output shall return to normal when the fault condition is removed
Over Voltage Protection	Run into protection model when output voltage exceeds limit, and return to normal when the fault condition is removed.

- * Ensure the power has been cut off before making any connection.
- * All wiring and installation of this product is required to be manipulated by a professional

Safety Standards Approved

- USA
 - Category: UL
 - Standards: UL 8750
- Canada
 - Category: CUL
 - Standards: CSA C22.2 No.250.13
- Europe
 - Category: CE/ENEC
 - Standards:
 - EN61347-1
 - EN61347-2-13
 - EN62493
 - EN62384
- CB Countries
 - Category: CB
 - Standards
 - IEC61347-1
 - IEC61347-2-13
- China
 - Category: CCC
 - Standards:
 - GB19510.1
 - GB19510.14
- Australia
 - Category: SAA
 - Standards:
 - AS/NZS IEC 61347.2.13
 - AS/NZS 61347.1
- Russia
 - Category: EAC
 - Standards:
 - ГОСТ Р МЭК 61347-1-2011
 - ГОСТ IEC 61347-2-13-2013
 - ГОСТ IEC 62493-2014
 - СТБ EH 55015-2006
 - ГОСТ IEC 61547-2013
 - ГОСТ 30804.3.2-2013 (IEC 61000-3-2:2009)
 - ГОСТ 30804.3.3-2013 (IEC