Product Features

- Universal input voltage: 90~305Vac;
- Constant power design, output current adjustable;
- Setting current with a built-in variable resistor;
- 2-in-1 dimming mode 0-10Vdc, PWM dimming;
- Surge protection: 4KV line-line, 6KV line-earth;
- Overall protection: Short circuit / Over temperature;
- Degrees of protection: IP65;
- Ambient temperature: -40℃～60℃;
- 5 years warranty.

Application

- Suitable for industrial lighting.

DESCRIPTION

LTP-240 series is especially designed for industrial lighting applications.This series takes constant power design, 0-10V and PWM dimming. The output adapts wide load range and the parameter can be adjusted through internal potentiometer. The circular integrated structure enables perfect match to industrial lighting fixtures and performs excellent heat dissipation to meet the industrial lighting demand.

MODELS

Model Number	Max Output Power（W）	Output Voltage Range (Vdc)	Output Current Adjustable Range (A)	Full Power Current Adjustable Range (A) [2]	Default Output Setting	Typical Efficiency [3]	Power Factor	
							115Vac	230Vac
LTP-240Y036 [1]	240	14～36	4.00～7.05	6.67～7.05	14～36V/6.67A	91%	0.99	0.96
LTP-240Y062	240	21～62	3.22～5.71	3.87～5.71	21~54V/4.44A	92%	0.99	0.96

Notes:

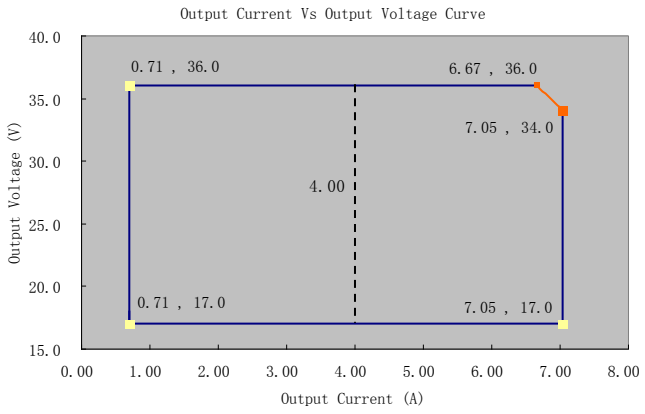
[1]. Y can be M or V, means dimmable or non-dimmable. Take LTP-240Y036 for example, LTP-240M036, with 0-10V, PWM dimming function, output current adjustable; LTP-240V036, output current adjustable;

[2]. Output current adjustable range with constant power at max output power;

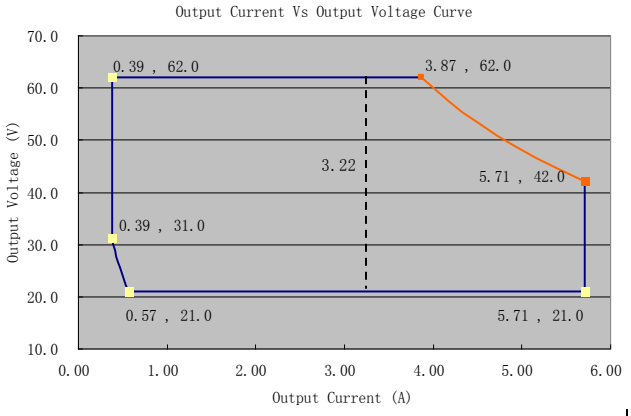
[3] All specifications are measured at 25℃ ambient temperature, if no specific note.

OPERATING AREA I-V

LTP-240Y036



LTP-240Y062



INPUT SPECIFICATIONS

Parameter	Min.	Typ.	Max.	Notes
Input Voltage	90Vac	100-277Vac	305Vac	
Input Frequency	47HZ	50/60	63Hz	
Leakage Current	-	-	0.75mA	277V/50Hz
Input AC Current	-	-	3.3Amax	100-277Vac &full load
Inrush Current(A)	-	-	75A	230Vac & full load
Power Factor	0.95	0.96	-	230Vac & full load
THD	-	-	15%	115-277Vac, 75%-100% load

OUTPUT SPECIFICATIONS

Parameter	Min.	Typ.	Max.	Notes
Output Current Tolerance	-5%Iset	-	5%Iset	Full load
Output Current Setting Range (Iset) LTP-240Y036 LTP-240Y062	 4.00A 3.22A	-	 7.05A 5.71A	
Output Current Setting Range with Constant Power LTP-240Y036 LTP-240Y062	 6.67A 3.87A	-	 7.05A 5.71A	
Total Output Current Ripple (pk-pk)			10%	230Vac & full Load，load is LED, ripple is different with difference LED load.
Startup Overshoot Current		-	10%	115~277Vac & 100% Load，load is LED
No Load Output Voltage LTP-240Y036 LTP-240Y062	 -	 -	 50V 80V	
Line Regulation	-	-	1%	25℃±10℃ ambient temperature, input voltage changes from 115Vac to 277Vac.
Load Regulation	-	-	3%	25℃±10℃ambient temperature, 230Vac input, load changes from 50% to 100%.
Turn-on Delay Time	-	-	3S	115Vac,100% load
	-	-	0.5S	230Vac,100% load

GENERAL SPECIFICATIONS

Parameter	Min.	Typ.	Max.	Notes
Efficiency @115Vac LTP-240Y036 Io=6.67A Io=7.05A LTP-240Y062 Io=3.87A Io=5.71A	 88% 88% 88% 88%	 90% 90% 90% 90%		Measured at full load and 25℃ambient Temperature
Efficiency @230Vac LTP-240Y036 Io=6.67A Io=7.05A LTP-240Y062 Io=3.87A Io=5.71A	 90% 90% 90% 90%	 92% 92% 92% 92%		Measured at full load and 25℃ambient Temperature
Efficiency @277Vac LTP-240Y036 Io=6.67A Io=7.05A LTP-240Y062 Io=3.87A Io=5.71A	 90% 90% 90% 90%	 92% 92% 92% 92%		Measured at full load and 25℃ambient temperature
MTBF		200000 hours	-	230Vac,80% load (MIL-HDBK-217F)
Lifetime		50000 hours	-	230Vac&100% load,70℃case temperature, refer to lifetime VS Tc curve for details
Operating Case Temperature for Safety Tc_s	-40℃		+85℃	
Operating Case Temperature for Warranty Tc_w	-40℃	-	+70℃	
Storage Temperature	-40℃	-	+85℃	Humidity: 5% to 100% RH
Dimensions (L×W×H)mm	¢191*H74.8mm			
Net Weight	2280±50g/PCS			
Package	L500*W410*H240mm; 8pcs/Ctn			

DIMMING

Parameter		Min.	Typ.	Max.	Notes
0~10VAbsolute Maximum Voltage on the Vdim (+) Pin		0V	-	10V	
0~10VSource Current on Vdim (+)Pin		-	-	2mA	
Dimming Output Range	LTP-240Y036 LTP-240Y062	10%Imax	-	100%Imax	
	LTP-240Y036 LTP-240Y062	0.70 0.57	-	7.05A 5.71A	
Recommended Dimming Range for 0-10 V		0V	-	10V	Default 0-10V/10V PWM Dimming
PWM_in High Level		9.7V	-	10V	
PWM_in Low Level		0V	-	0.3V	
PWM_in Frequency Range		250Hz		1000Hz	
PWM_in Duty Cycle		1%	-	99%	

SAFTY STANDARDS

Safety Category	Country / Territory	Standards
CCC	China	GB19510.1
		GB19510.14
CE	Europe	EN61347-1
		EN61347-2-13
CB	CB Countries	IEC61347-1
		IEC61347-2-13
UL	USA	UL 8750
		UL 1310（Class 2 Power Units）
		UL 1012
cUL	Canada	CSA C22.2 No.250.13-12
		CSA C22.2 No.223-M91（Power Supplies With Extra-Low-Voltage Class 2 Outputs）
KC	South Korea	K61347-1
		K61347-2-13
		K62384
PSE	Japan	J61347-1
		J61347-2-13
SAA	Australia	AS/NZS IEC 61347-2-13
		AS/NZS 61347.1

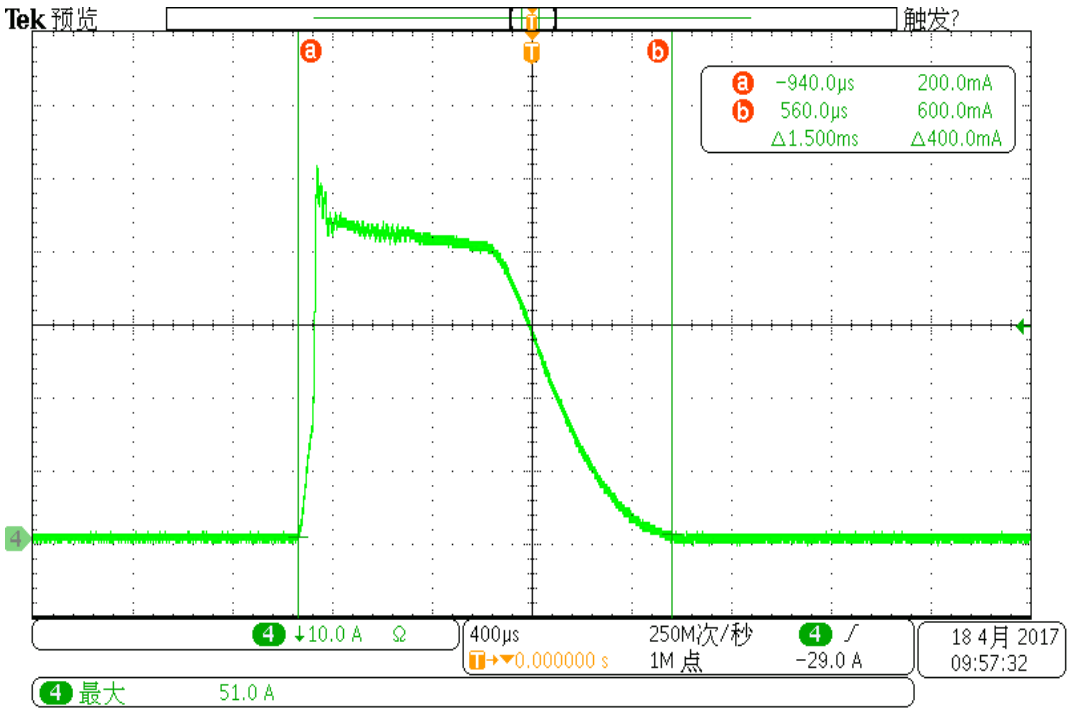
EMC COMPLIANCE

EMC Category	Country / Territory	Standards
CCC	China	GB 17743
		GB 17625.1
CE	Europe	EN 55015
		EN 61000-3-2
		EN 61000-3-3
		EN 61547
KC	South Korea	K61547
		K00015
PSE	Japan	J55015
FCC	USA	FCC part 15

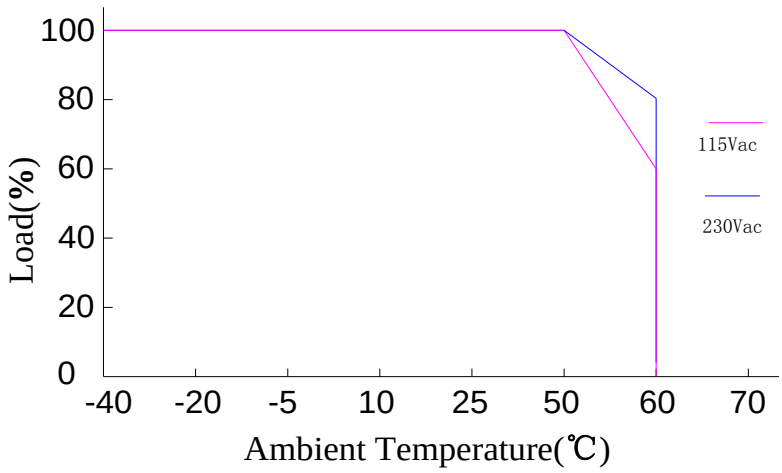
NOTE:

This LED driver meets the EMI specifications above, but EMI performance of a luminaire that contains it depends also on the other devices connected to the driver and on the fixture itself.

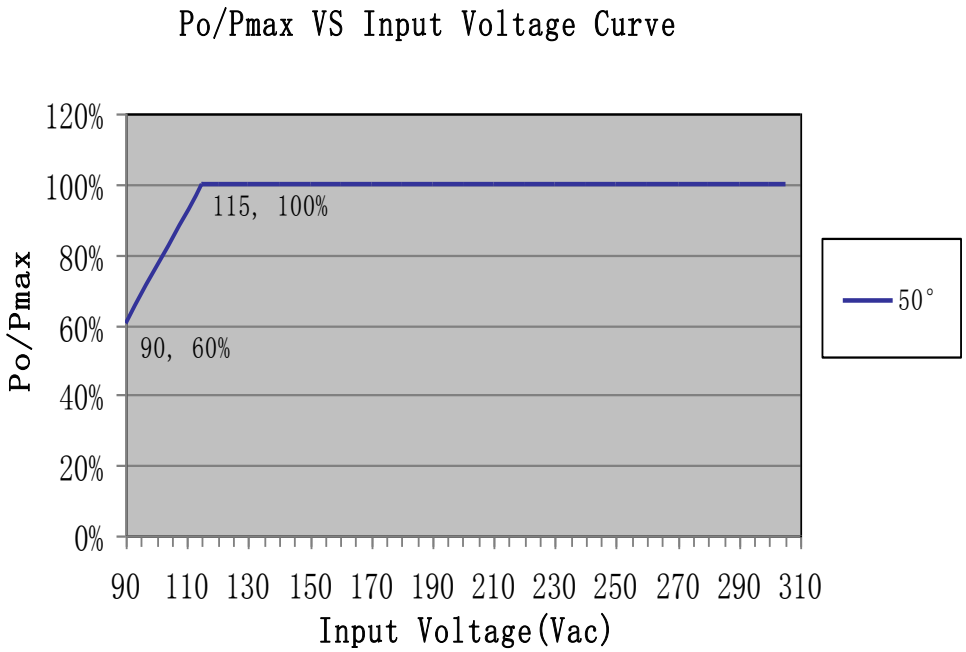
INRUSH CURRENT WAVEFORM



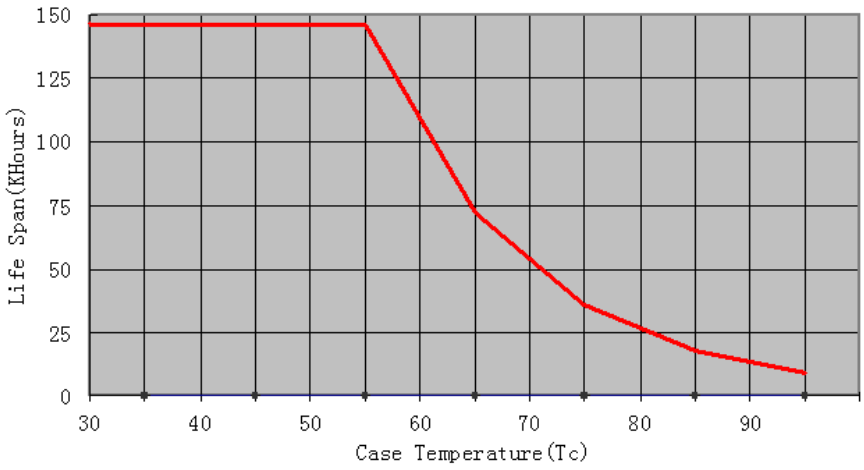
DERATING CURVE



OUTPUT POWER VS INPUT VOLTAGE

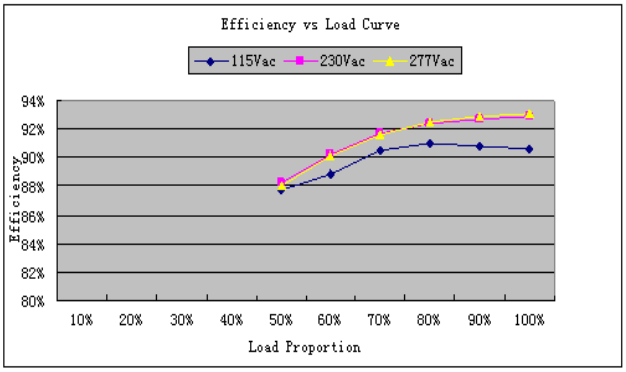


LIFETIME VS CASE TEMPERATURE

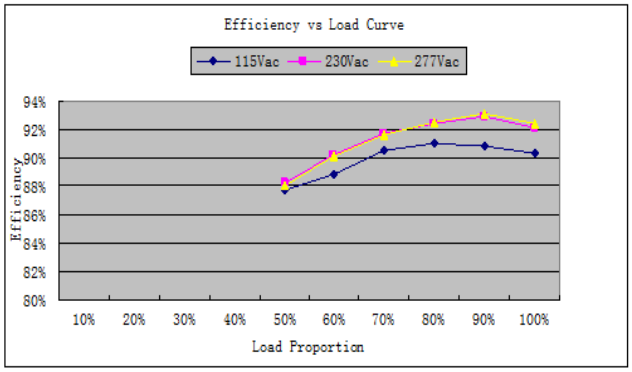


EFFICIENCY VS LOAD

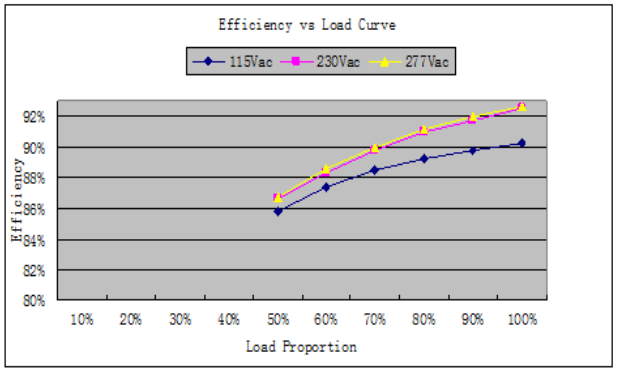
LTP-240Y036(7.05A)



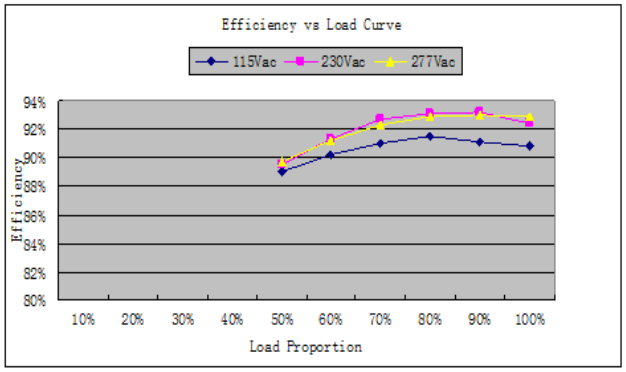
LTP-240Y036(6.67A)



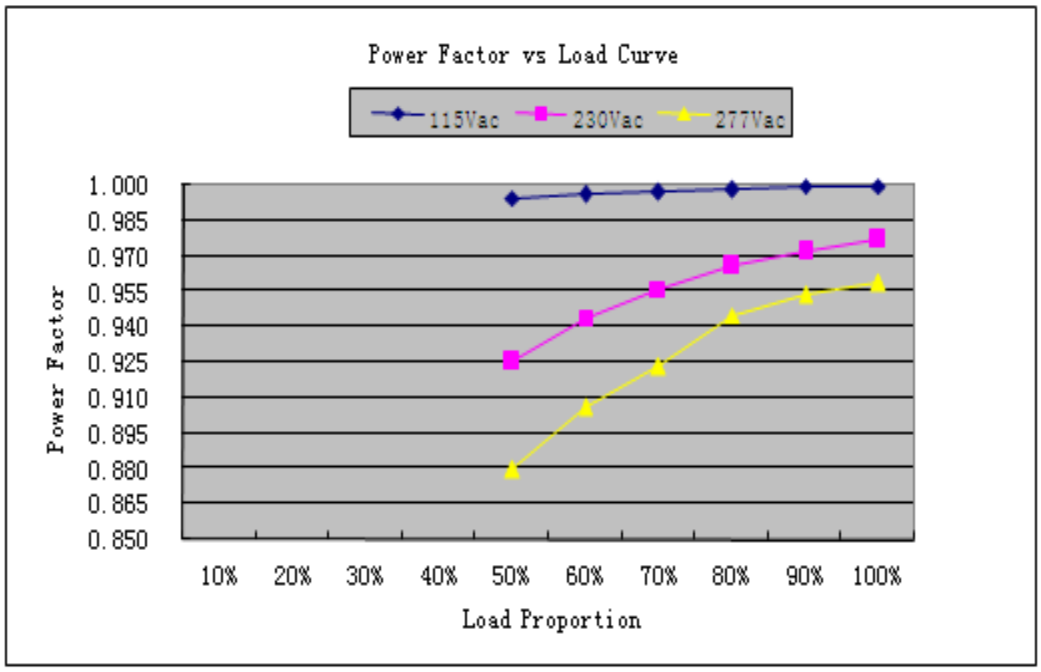
LTP-240Y062(5.71A)



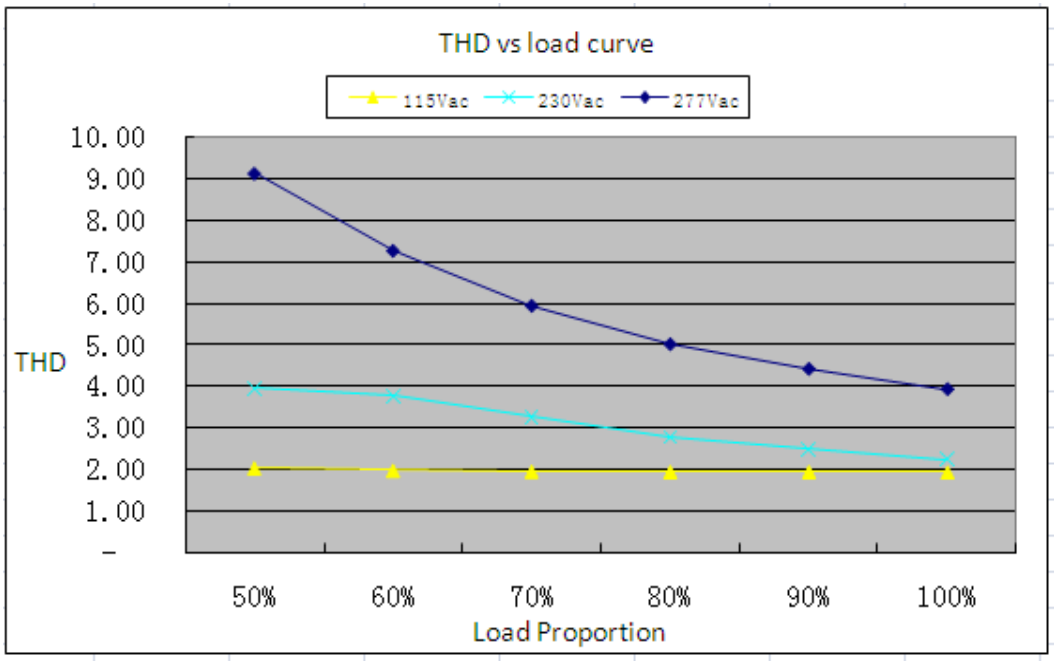
LTP-240Y062(3.87A)



POWER FACTOR VS LOAD



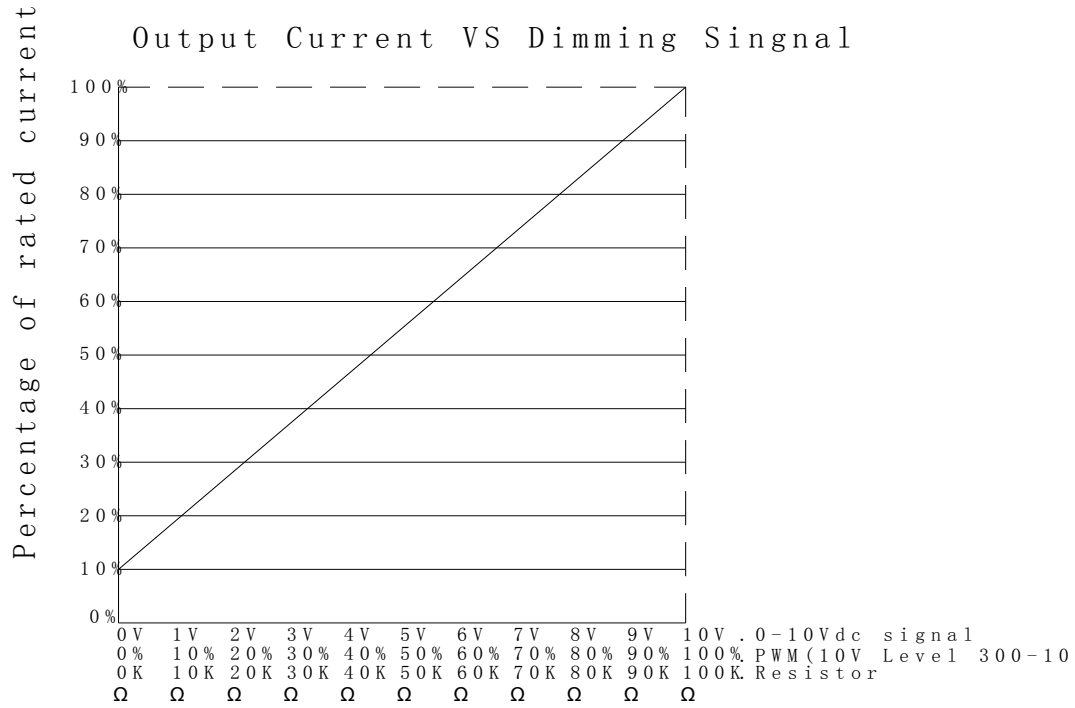
TOTAL HARMONIC DISTORTION



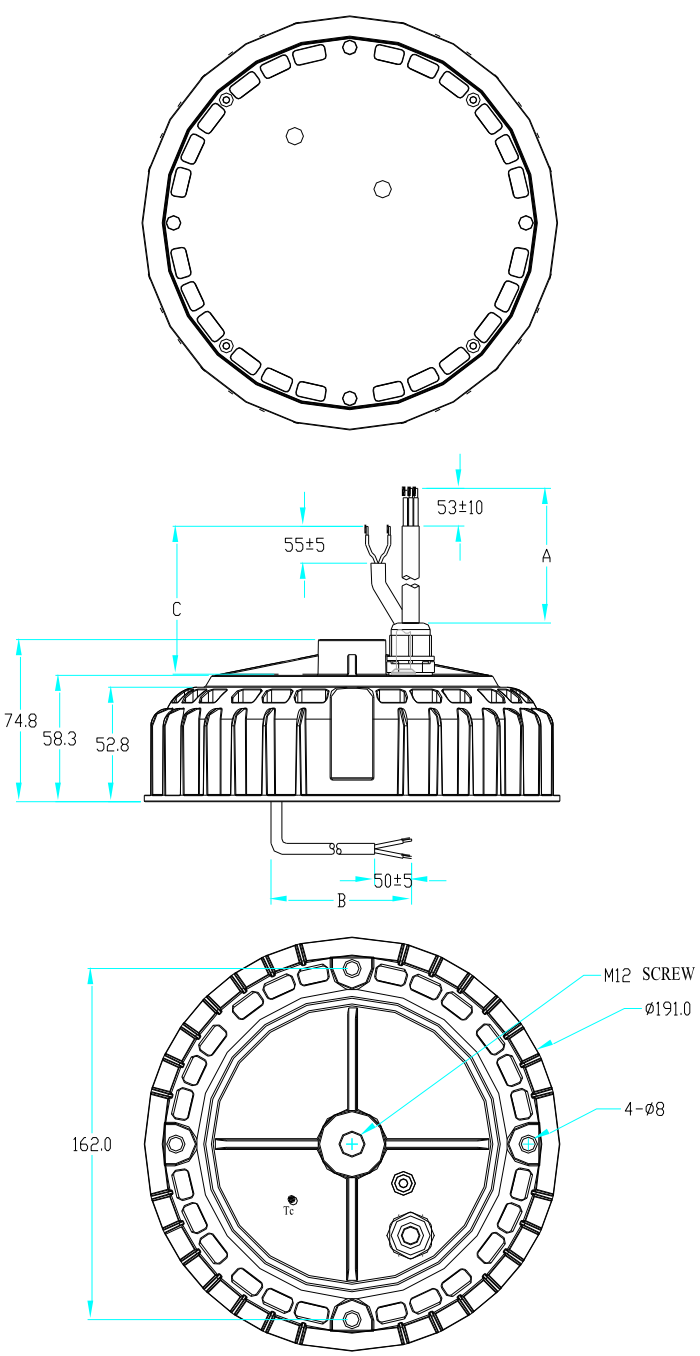
PROTECTIONS

Parameter	Notes
Over Temperature Protection	Decreases output current, returning to normal after over temperature is removed. The max derating could be 20% (typ.).
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

0-10V/PWM DIMMING



MECHANICAL OUTLINE

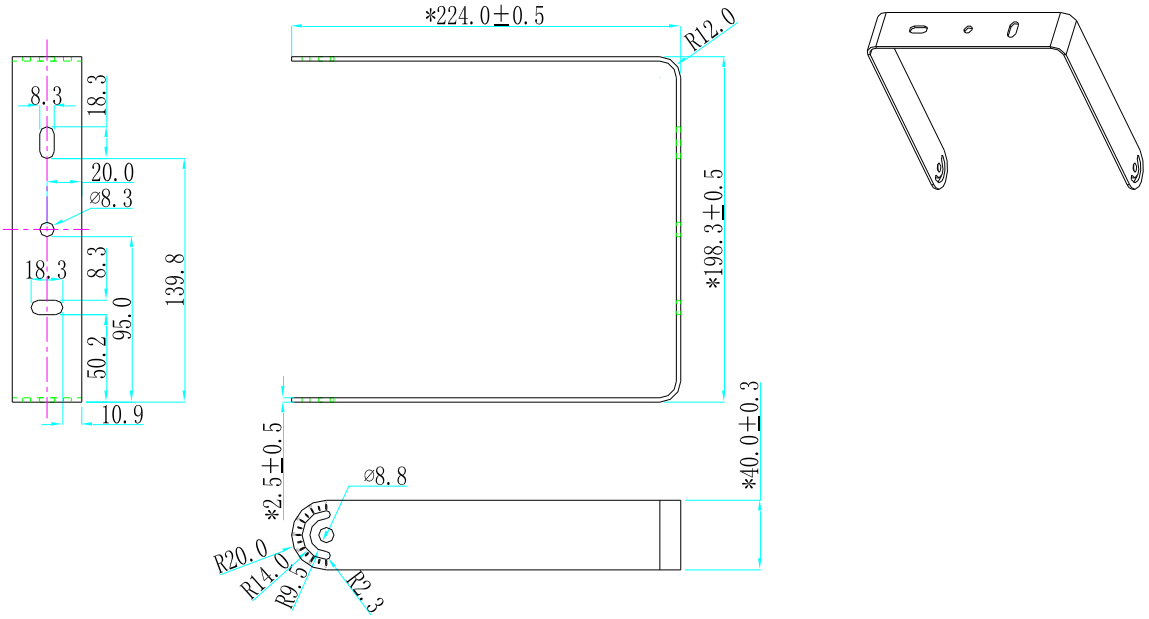


Note: LTP-240V types with no dimming

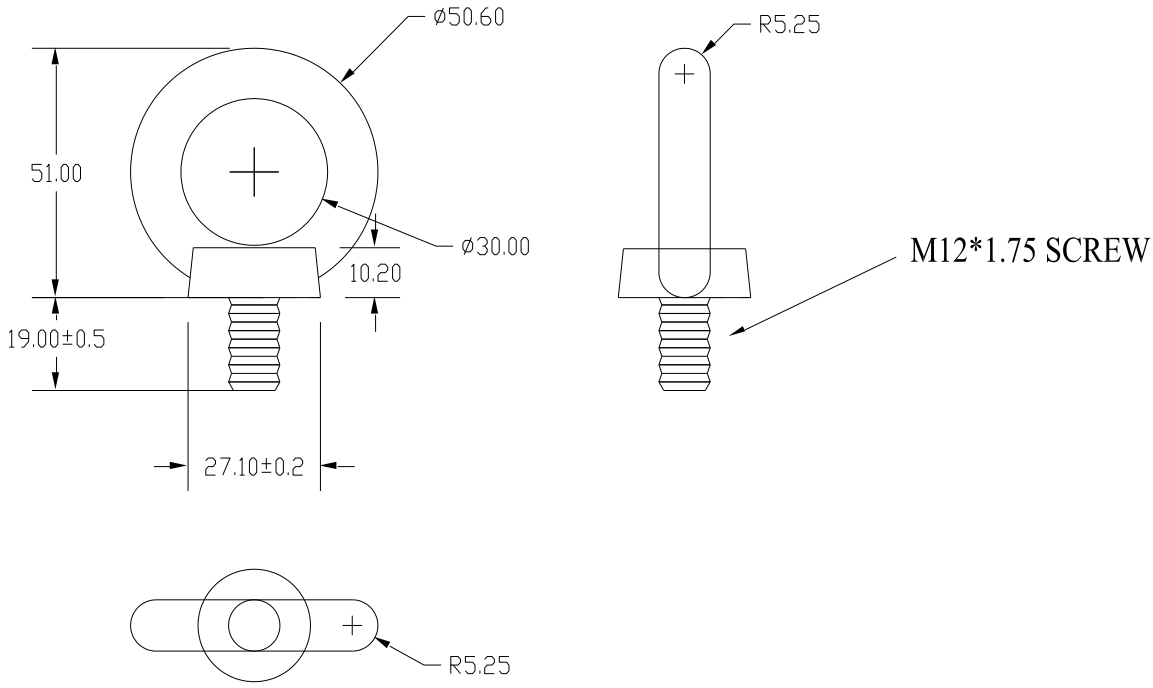
Wire	Specification
AC Input A	UL 18AWG L=300±20mm
DC Output B	UL 16AWG L=300±20mm
Dimming C	UL 18AWG L=300±20mm

Optional Accessories：

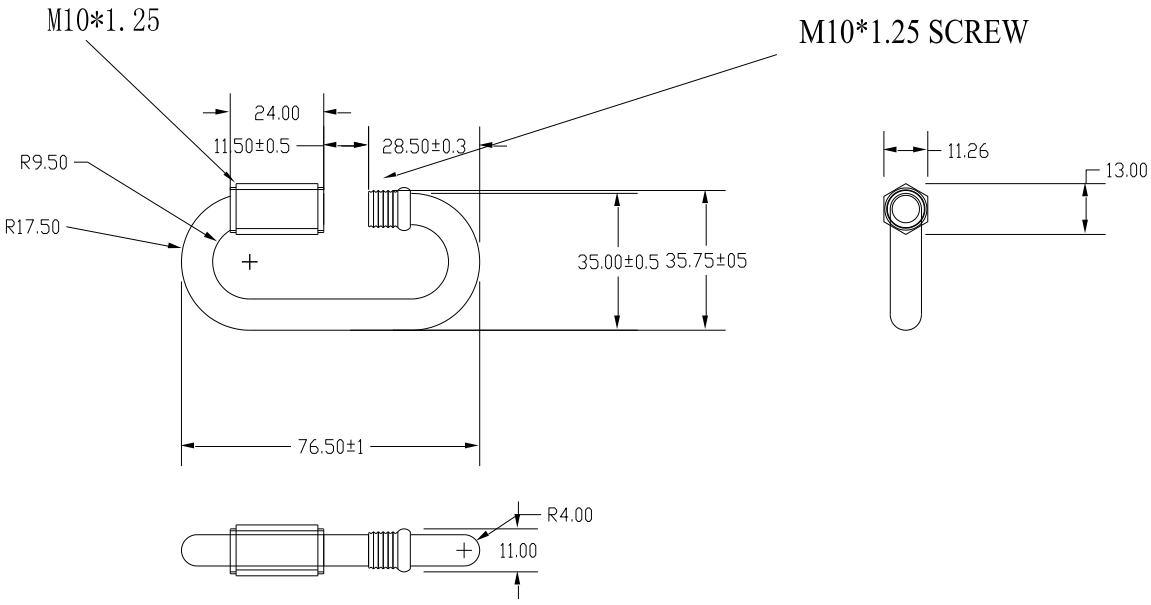
Holder：



Ring：



Hook：


M10*1.25
M10*1.25 SCREW
24.00
11.50±0.5
28.50±0.3
R9.50
R17.50
35.00±0.5
35.75±05
11.26
13.00
76.50±1
R4.00
11.00

REVISION HISTORY

Version	Description of Change		Date	Notes
	Before	Now		
A.1	—	Datasheets Release	2017-11-01	