



PRODUCT FEATURES

- Universal input voltage: 90-305Vac;
- Constant current design, Efficiency up to 95%;
- 3-in-1 isolated dimming: 0-10Vdc, PWM, Resistor;
- Surge protection: 4KV line-line, 6KV line-earth;
- Multiple protection: SCP, OVP, OTP;
- IP65 design for indoor and outdoor applications;
- 5 years warranty.

APPLICATION

- Suitable for industrial lighting.

DESCRIPTION

G6-240W series is specially designed for industrial lighting applications. It is constant current LED driver that operates from 90-305Vac with 0-10V and PWM dimming function. This round integrated structure enables it to have a better heat dissipation cooler, significantly improving reliability and extending product life. To ensure trouble free operation, protection is provided against input surge, output over voltage, short circuit, and over temperature.

MODELS

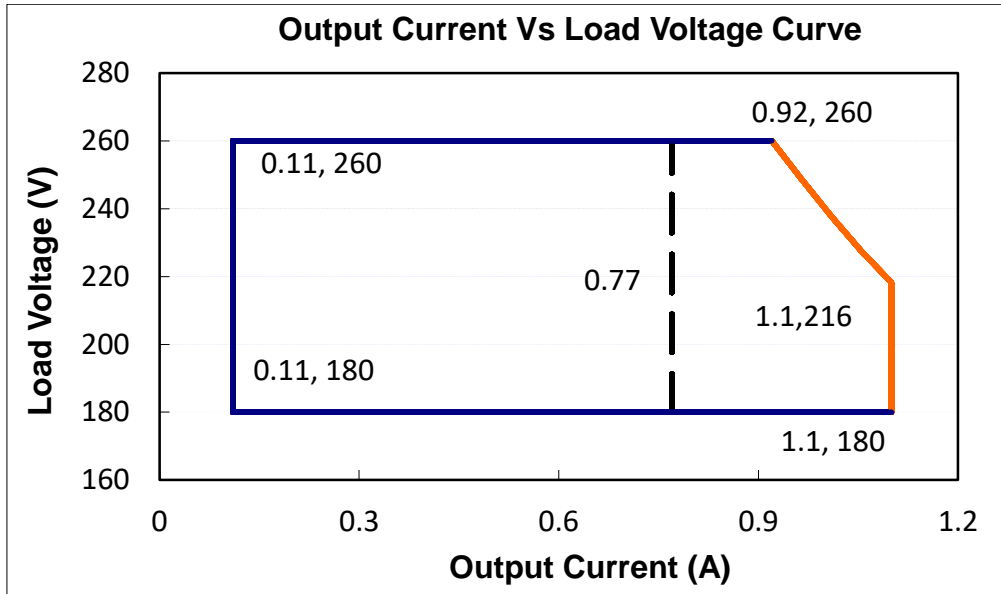
Model Number[1]	Max Output Power (W)	Output Voltage Range (Vdc)	Output Current Adjustable Range (A)	Full Power Current Adjustable Range (A) [2]	Default Output	Typical Efficiency [3]	Power Factor	
							120Vac	230Vac
G6-240Y260	240	180-260	0.77-1.10	0.92-1.10	180-216V/1.10A	95%	0.99	0.96

Notes:

- [1]. Y can be M or V. Y=M means dimmable, Y=V means non-dimmable;
- [2]. Output current adjustable range with constant power at max output power;
- [3]. All specifications are measured at 25°C ambient temperature, input voltage 230Vac, and the typical value tested by full load, if no specific note.

OPERATING AREA I-V

G6-240Y260



Notes : Y=V is suitable for the right area of the dotted line; Y=M is suitable for the solid line contain area.

The drivers are not allowed to work in over-load condition, otherwise warranty will expire.

INPUT SPECIFICATIONS

Parameter	Min.	Typ.	Max.	Notes
Input Voltage	90Vac	100-277Vac	305Vac	
Input Frequency	47Hz	50/60	63Hz	
Leakage Current	-	-	0.75mA	277Vac/60Hz
Input AC Current	-	-	3.3A	100-277Vac & full load
Inrush Current(I ² T)	-	-	1.5A ² S	230Vac, full load
Power Factor	0.98	0.99	-	120Vac, full load
	0.95	0.96	-	230Vac, full load
	0.91	0.92	-	277Vac, full load
THD	-	5%	10%	120Vac-240Vac, 80%-100% load
	-	7%	15%	277Vac;80%-100% load

OUTPUT SPECIFICATIONS

Parameter	Min.	Typ.	Max.	Notes
Output Current Tolerance	-8%	-	+8%	
Output Current Range (A) G6-240Y260	0.77	-	1.10	
Output Current Setting Range with Constant Power(A) G6-240Y260	0.92	-	1.10	
Total Output Current Ripple (pk-pk)	-	5%	10%	20MHz BW, 100% Load& load is LED, ripple is different with difference LED load
Startup Overshoot Current	-	-	10%	100-277Vac & 100% Load, load is LED
No Load Output Voltage(V) G6-240Y260	-	290V	320V	
Line Regulation	-1%	-	+1%	25°C±10°C ambient temperature, input voltage changes from 100Vac to 277Vac
Load Regulation	-3%	-	+3%	25°C±10°C ambient temperature, 230Vac input, load changes from 80% to 100%.
Turn-on Delay Time	-	-	1.0S	120Vac, 100% load
	-	-	0.5S	230Vac, 100% load

GENERAL SPECIFICATIONS

Parameter	Min.	Typ.	Max.	Notes
Efficiency @120Vac G6-240Y260	91%	93%	-	25°C±10°C ambient temperature, 100% load
Efficiency @230Vac G6-240Y260	93%	95%	-	25°C±10°C ambient temperature, 100% load
Efficiency @277Vac G6-240Y260	93%	95%	-	25°C±10°C ambient temperature, 100% load
Dielectric Strength	Input-PE	-	1650Vac	5mA/60S
	Output- PE	-	-	
Grounding Resistance	-	-	0.1Ω	25A/60S
Insulation Resistance	10MΩ	-	-	Input-PE, Output-PE, 500Vdc/60S/25°C/70%RH
MTBF	-	200000Hrs	-	25°C±10°C ambient temperature, 230Vac,80% load (MIL-HDBK-217F)
Lifetime	-	50000Hrs	-	230Vac&100% load,75°C case temperature, refer to lifetime VS Tc curve for details
Operating Case Temperature for Safety Tc_s	-40°C	-	+90°C	
Operating Case Temperature for Warranty Tc_w	-40°C	-	+75°C	5 years warranty Humidity: 10% to 95% RH
Storage Temperature	-40°C	-	+85°C	Humidity: 5% to 100% RH
Dimensions (DxH)mm	Φ130×64.1			
Net Weight	950±150g/PCS			
Package	L490*W370*H185mm; 12PCS/Ctn.			

DIMMING

Parameter		Min.	Typ.	Max.	Parameter
0-10V Absolute Maximum Voltage on the Vdim (+) Pin		-	10V	-	
0-10V Source Current on Vdim(+)Pin		-	1mA	2mA	
Dimming Output Range	G6-240M260	10%	-	100%Imax	Imax=1.10A
Recommended Dimming Range for 0-10V		1V	-	10V	Default 0-10V/PWM dimming;
PWM_in High Level		9.7V	-	10.3V	
PWM_in Low Level		0V	-	0.3V	
PWM_in Frequency Range		400Hz	-	2KHz	
PWM_in Duty Cycle		10%	-	99%	
Dimming Accuracy		-	-	10%	

SAFETY STANDARDS

Safety Category	Country / Territory	Standards	Whether have Certification
CCC	China	GB19510.1, GB19510.14	√
CE	Europe	EN61347-1, EN61347-2-13	√
		EN62493	√
		EN62384	√
CB	CB Countries	IEC61347-1, IEC61347-2-13	√
BIS	India	IS 15885(PART 2/SEC 13)	
UL	USA	UL 8750	√
CUL	Canada	CSA C22.2 No.250.13	√
KC	South Korea	K61347-1, K61347-2-13	
PSE	Japan	J61347-1, J61347-2-13	
SAA	Australia	AS/NZS IEC 61347.2.13	√
		AS/NZS 61347.1	√

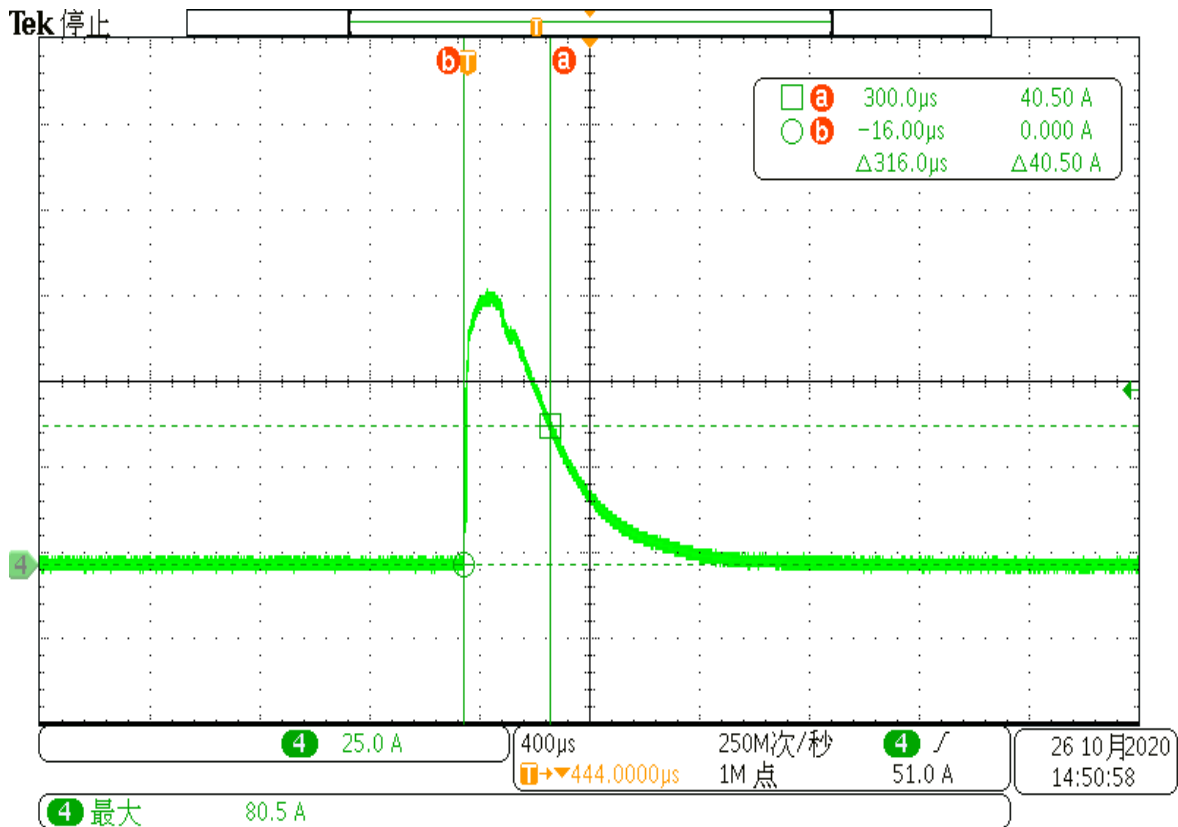
EMC COMPLIANCE

EMC Category	Country / Territory	Standards	Whether have Certification
CCC	China	GB/T 17743, GB 17625.1	√
CE	Europe	EN 55015	√
		EN 61000-3-2, EN 61000-3-3	√
		EN61000-4-2,3,4,5,6,11	√
		EN 61547	√
KC	South Korea	K61547, K00015	
PSE	Japan	J55015	
FCC	USA	FCC part 15	√

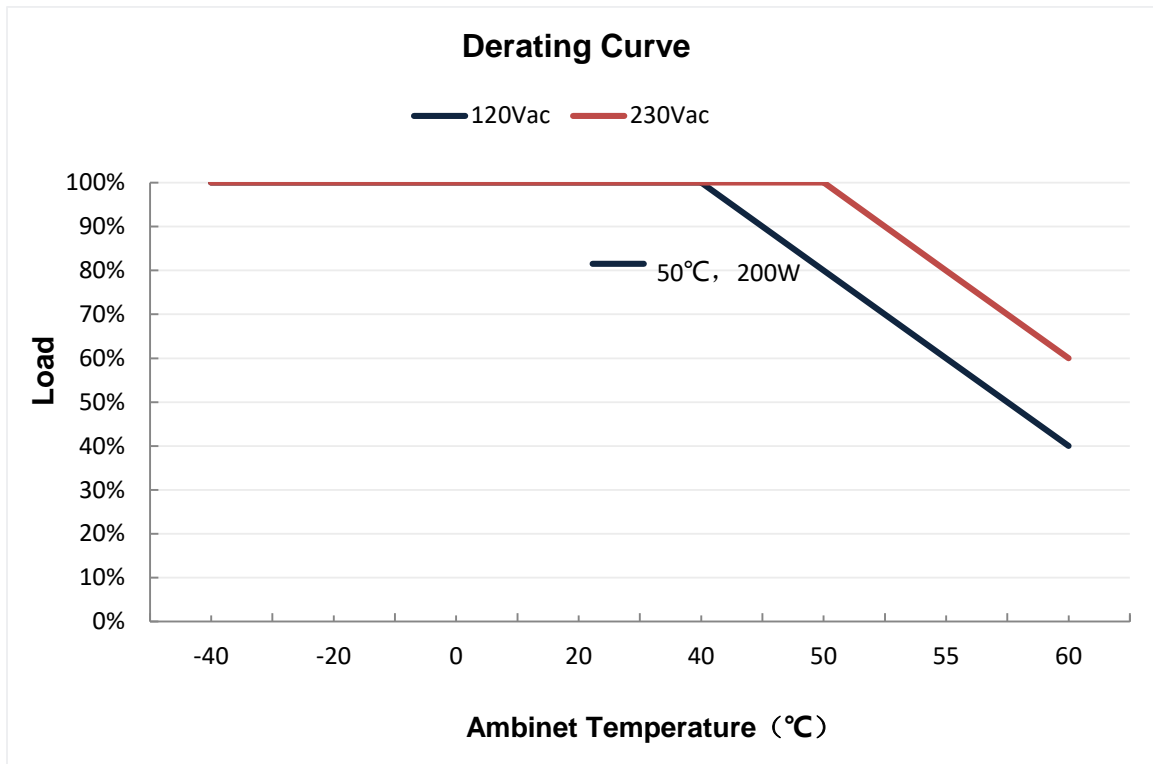
NOTE:

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.

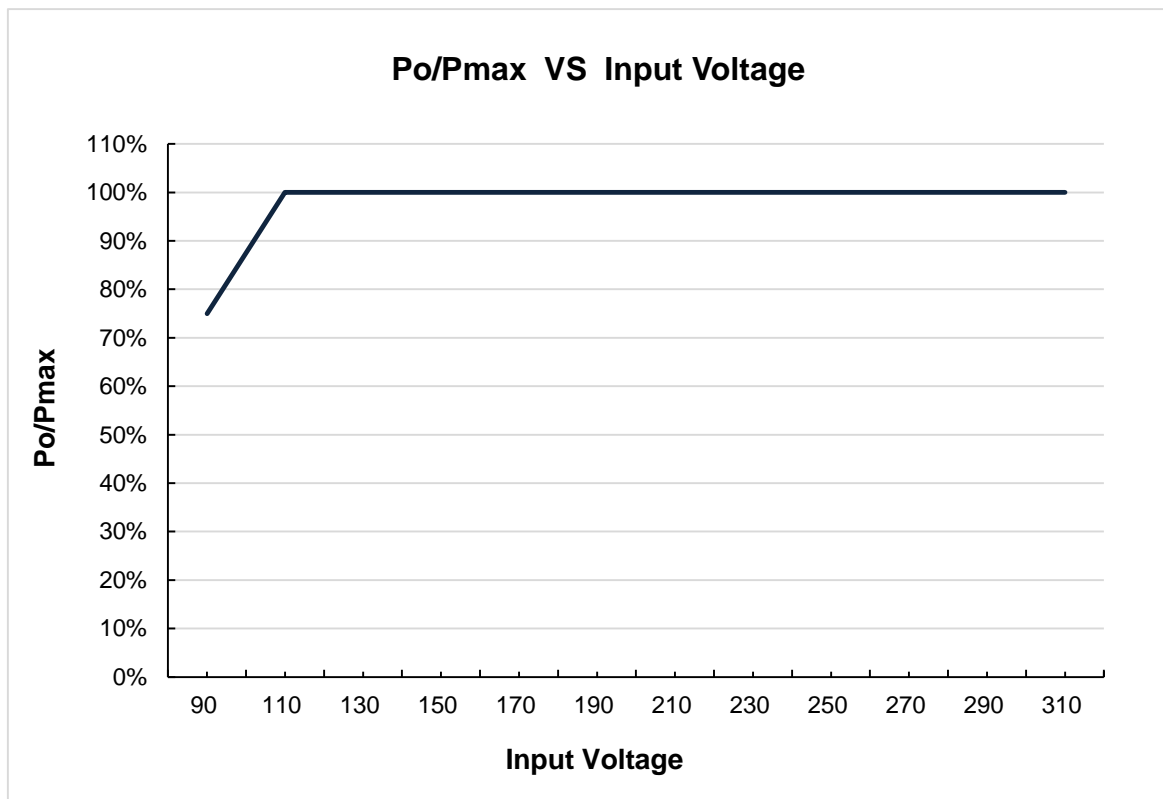
INRUSH CURRENT WAVEFORM



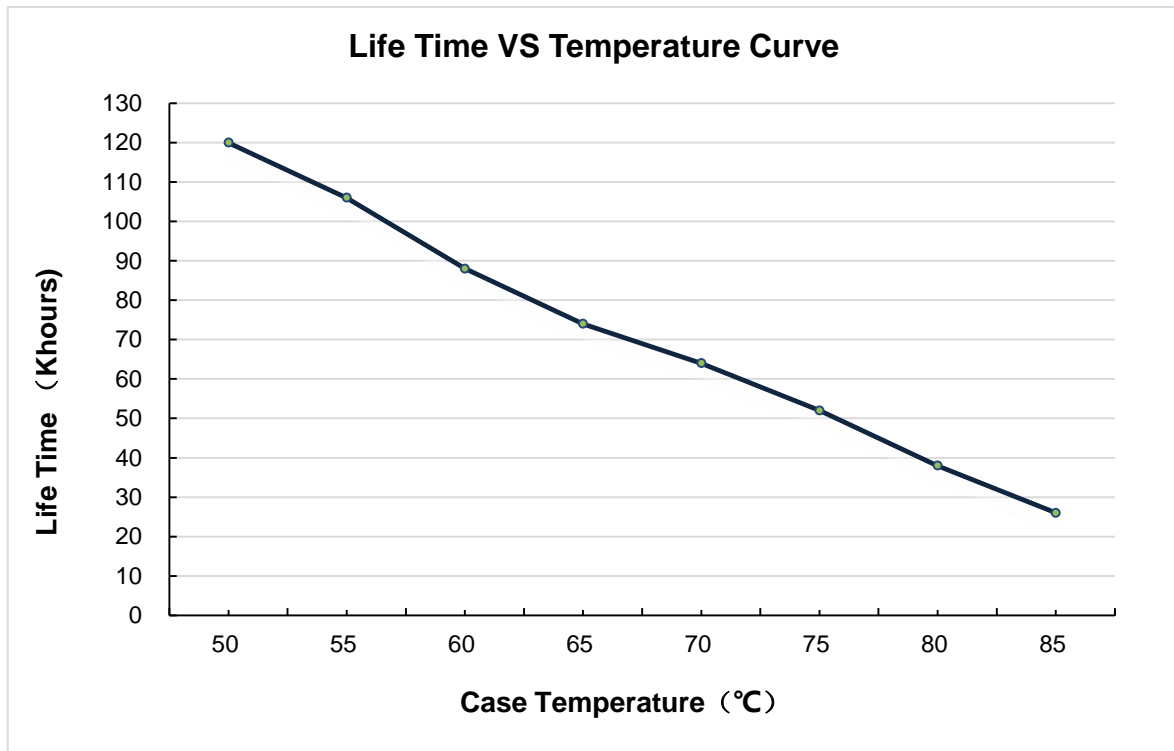
DERATING CURVE



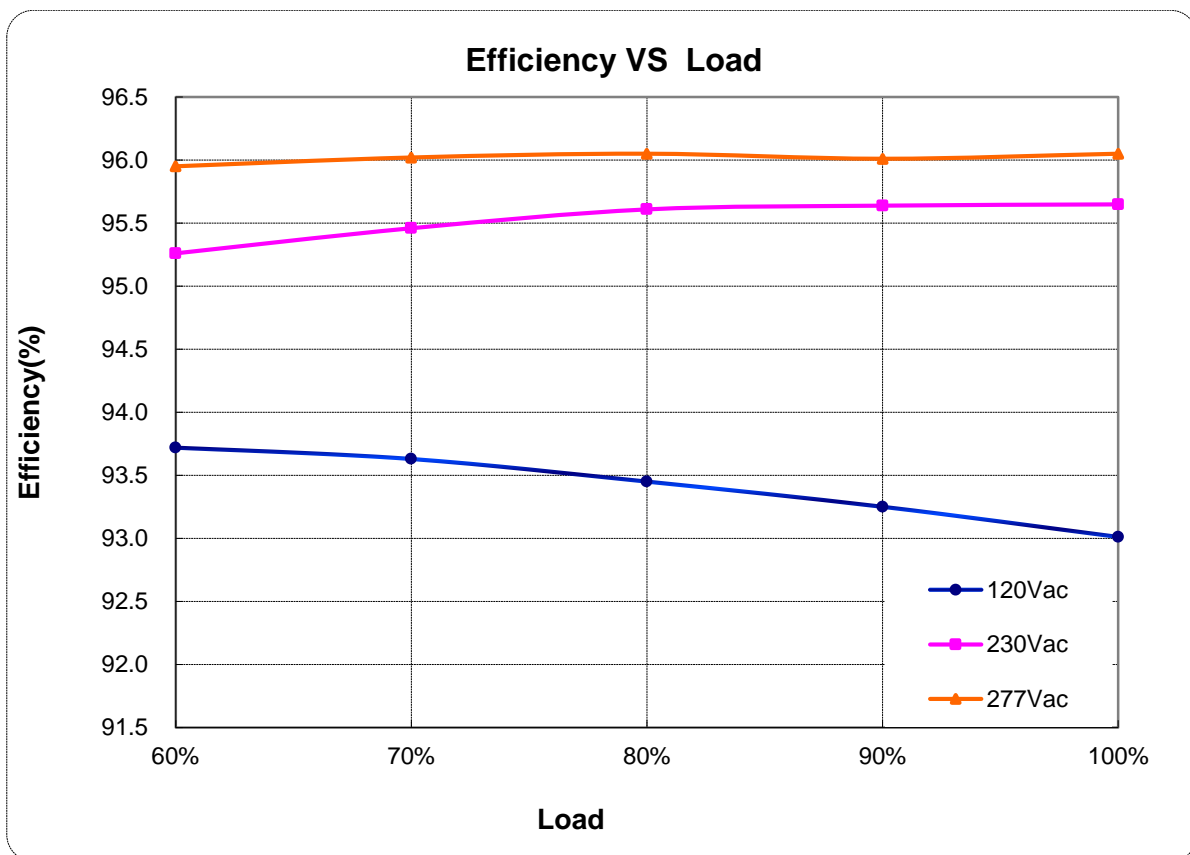
OUTPUT POWER VS INPUT VOLTAGE



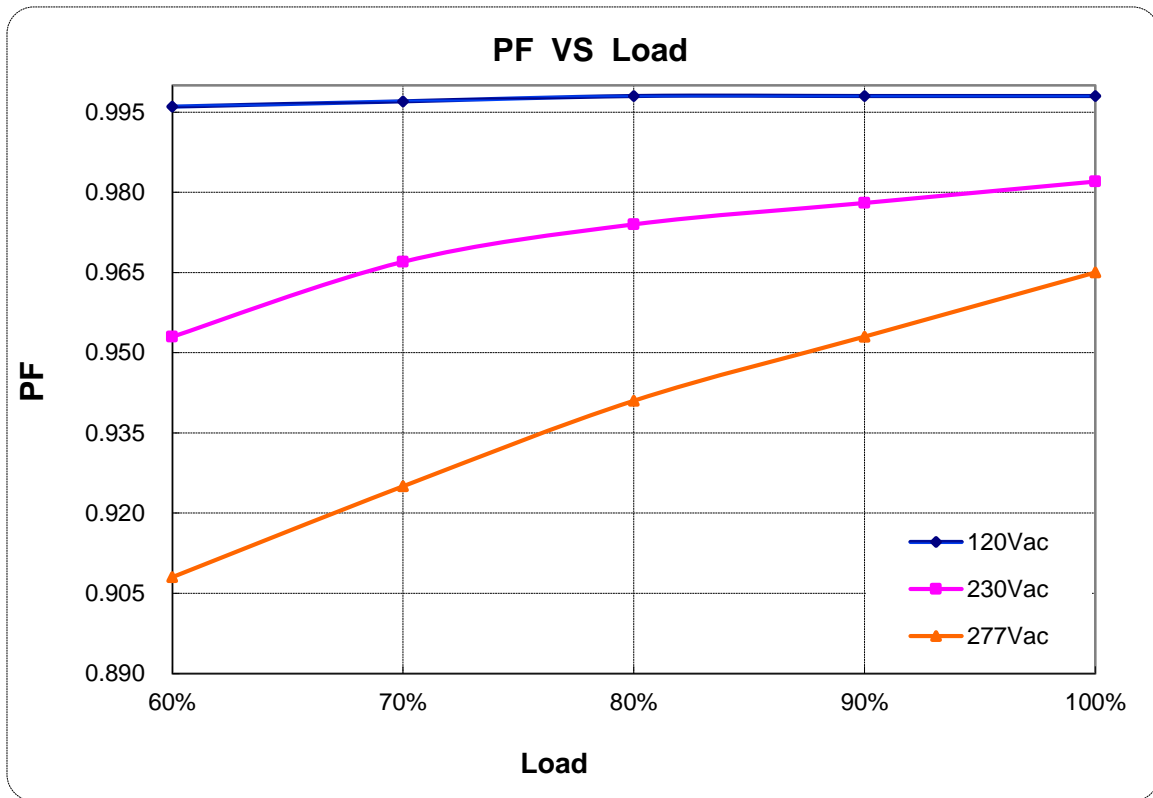
LIFETIME VS CASE TEMPERATURE



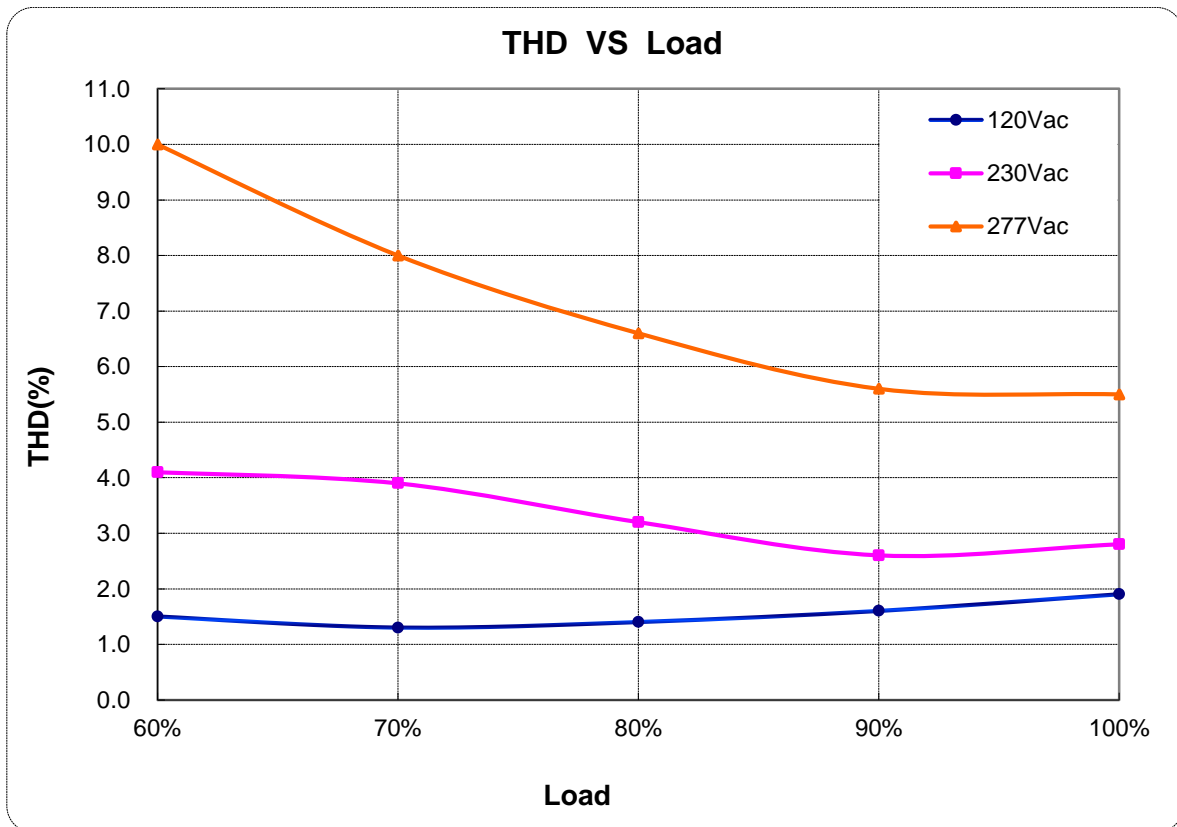
EFFICIENCY VS LOAD



POWER FACTOR VS LOAD



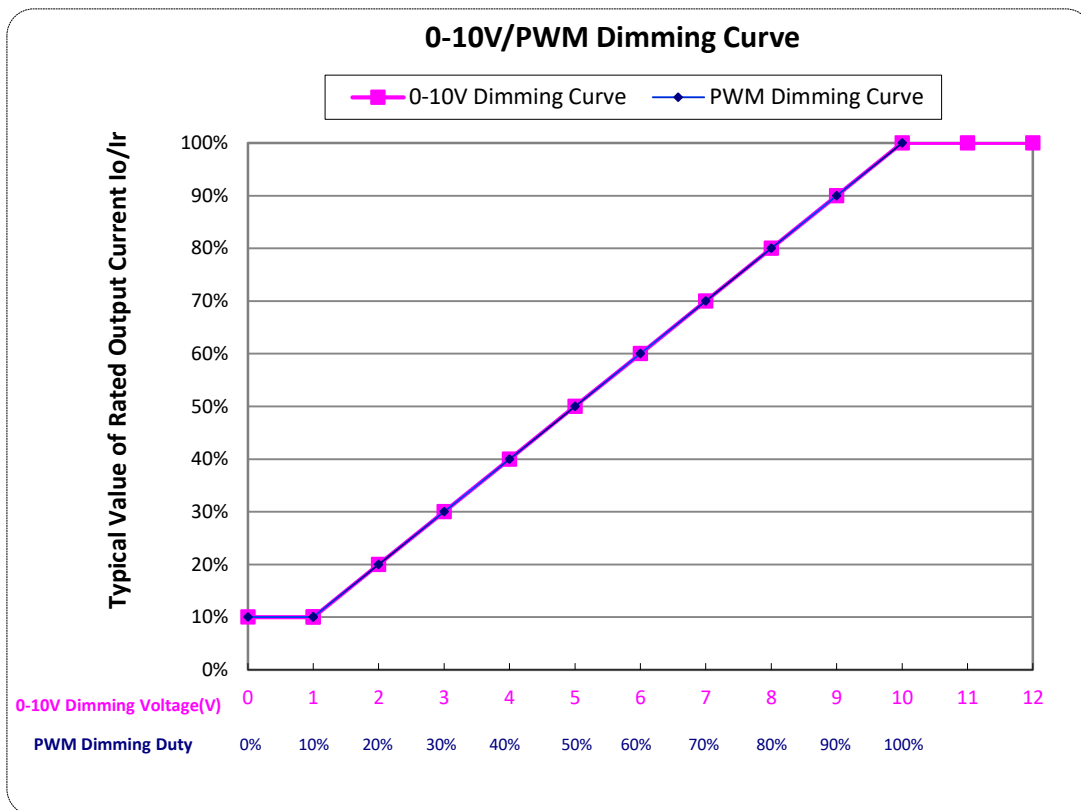
TOTAL HARMONIC DISTORTION



PROTECTIONS

Parameter	Notes
Over Temperature Protection	Decreases output current, returning to normal after over temperature is removed, exclude auxiliary power supply.
Short Circuit Protection	Hiccup 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.

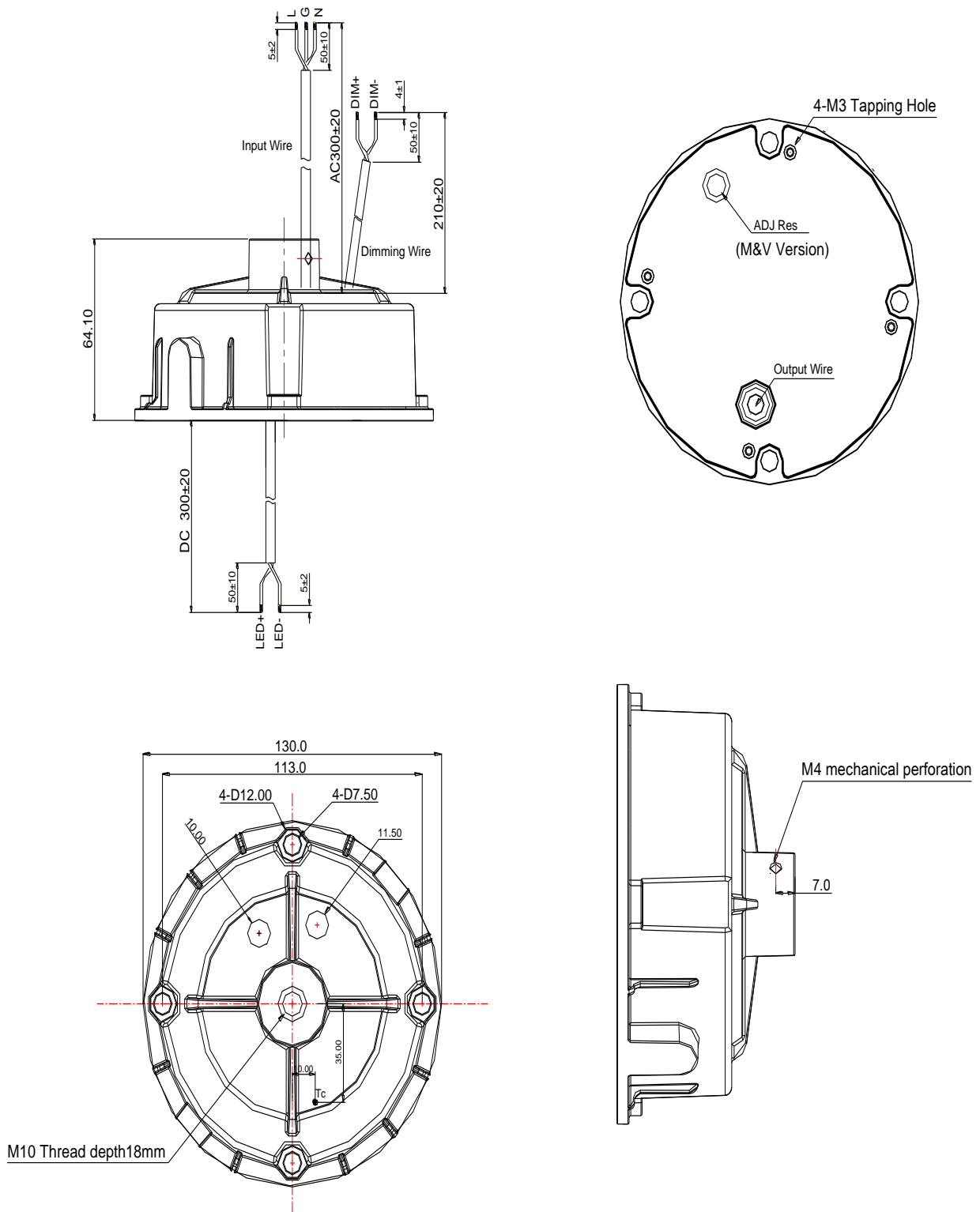
0-10V/PWM DIMMING CURVE



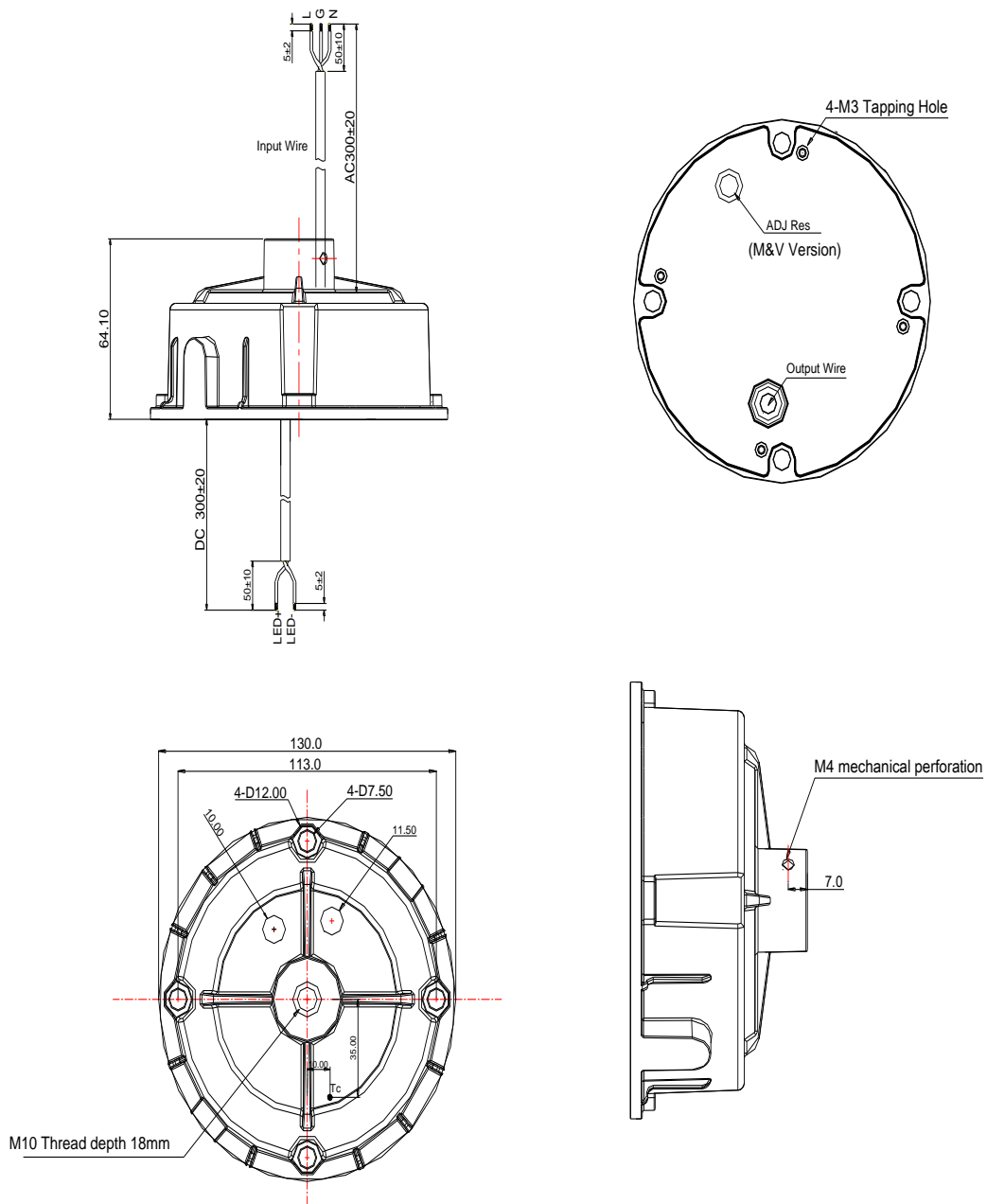
Notes: The duty cycle of PWM control Signal recommend setting 10%-100%.

MECHANICAL OUTLINE

G6-240M260 Types



G6-240V260 Types



Note: Case color: RAL 9017 matte black.

Wire	Specification	Note
Input	CCC+VDE 3x1.0mm ² L=300±20mm L:Brown, N:Blue, G:Yellow/Green	CCC/CE
	UL SJOW 3C*18AWG L=300±20mm L:Black, N:White, G:Green	UL
Output	CCC+VDE 2x1.0mm ² L=300±20mm LED+:Brown, LED-:Blue	CCC/CE
	UL SJOW 2C*18AWG L=300±20mm LED+:Red, LED-: Black	UL
Dimming	22AWG*2C L=210±20mm DIM+:Purple, DIM-:Gray	CCC/CE
	22AWG*2C L=210±20mm DIM+:Purple, DIM-:Pink	UL

Product Specification

Product Name: 240W Non-isolated LED Driver

Product Model: G6-240M260

G6-240V260

Rev.: D.2

Address: XiLiSongbai Road 1061,
Nanshan District, Shenzhen City,
Guangdong Province, P.R.China

Post Code: 518108

TEL: 0755-27657000

FAX: 0755-27657908

E-mail: info@mosopower.com

Web site: <http://www.mosopower.com>

Prepared By	Checked By	Approved By

Specification for Approval

Product Name: 240W Non-isolated LED Driver

Product Model: G6-240M260
G6-240V260

Rev.: D.2

CUSTOMER AUTHORIZED SIGNATURE		
Tested By	Checked By	Approved By
(Company seal)Return one copy to MOSO with approved signature and company seal.		

Prepared By	Checked By	Approved By