

Specification for Approval

Product Name: 26W Constant Current Driver

Product Model: X6-026M052 ☐

X6-026V052 ☒

Rev: A.2

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

Post Code: 518108

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

Prepared By	Checked By	Approved By

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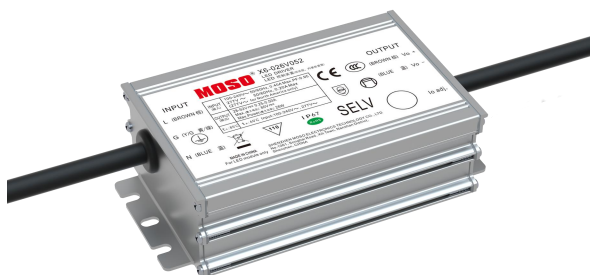
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CUSTOMER AUTHORIZED SIGNATURE		
Tested By	Checked By	Approved By
(Company seal)Return one copy to MOSO with approved signature and company seal.		

XiLiSongbai Road 1061,
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Product Feature:

- Input voltage range: 90~305Vac;
- Constant current design;
- Output current adjustable by Built-in potentiometer;
- (M Model)3-in-1 dimmable: 0~10Vdc, PWM, Resistor;
- (M Model)Output and Dimming Signal Isolating, Dim to off;
- THD<10%;
- Surge protection:4KV line-line, 6KV line-earth;
- Protections: OVP, SCP,OTP;
- IP67 design for indoor and outdoor applications;
- Suitable for dry / damp / wet locations;
- 5 years warranty.

Application

- Suitable for LED roadway lighting, industrial lighting, landscape lighting, etc.

DESCRIPTION

The X6-26W is a 26W, constant-current, IP67 LED driver that operates from 90-305Vac input with excellent power factor and low THD. It is created for industrial lights, tunnel and street lights. The high efficiency of these drivers and compact metal case enable them to run cooler, significantly improving reliability and extending product life. To ensure trouble-free operation, protection is provided against input surge, output over voltage, over temperature and short circuit protection.

Models

Model Number	Input voltage range(Vac)	Max Output Power (W)	Output Voltage Range (Vdc)	Output current range(A)	Default output current (A)	Typical Efficiency	Typical THD	Typical PF
								230Vac
X6-026Y052	90-305	26	28-52	0.25-0.50	0.50	88%	6%	0.97

Notes:

[1]Y=M means 0-10V/PWM dimming; Y=V means non-dimmable. Model -A means forward dimming, and model -B means reverse dimming.

[2]Remark: All specifications are measured at 25℃ ambient temperature, input voltage 230Vac, and the typical value tested by full load, if no specific note.

INPUT SPECIFICATIONS

Parameter	Min.		Typ.		Max.		Notes
Input Voltage	90Vac		100-277Vac		305Vac		
Input Frequency	47Hz		50/60		63Hz		
Leakage Current	-		-		0.70mA		277Vac/60Hz
Input AC Current	-		-		0.40A		100-277Vac with full load
Inrush Current	-		-		0.25A ² S		230Vac input, 100% Load
Power Factor	0.97		0.99		-		120Vac, 60Hz, 100% load
	0.95		0.97		-		230Vac, 50Hz, 100% load (Ps: Input 220Vac, 50Hz Output 41.8V&0.24A, PF>0.9)
	0.94		0.96		-		277Vac, 50Hz, 100% load
THD	-		6%		15%		100-277Vac, 50-60Hz, with 70%-100% load
Max. NO. of PSUs on CIRCUIT BREAKER	B10	10	B16	16	B25	25	230Vac, 100% load
	C10	16	C16	26	C25	41	

OUTPUT SPECIFICATIONS

Parameter	Min.		Typ.		Max.		Notes
Output Current Tolerance	-8%		-		+8%		
Output Current Set Range(A)	0.25		-		0.50		
Total Output Current Ripple(pk-pk)	-		5%		10%		20MHz BW, full load & LED Load, ripple is different with difference LED load.
Startup Overshoot Current	-		-		10%		100~277Vac & full load, LED Load
No Load Output Voltage(V)	-		-		80		
Line Regulation	-3%		-		+3%		25°C±10°C ambient temperature, input voltage changes from 100Vac to 277Vac.
Load Regulation	-5%		-		+5%		25°C±10°C ambient temperature, 230Vac input, load changes from 60% to 100%.
Turn-on Delay Time	-		-		1S		120Vac, 100% load
	-		-		0.5S		230Vac, 100% load
Standby Power	-		-		0.5W		230Vac

GENERAL SPECIFICATIONS

Parameter		Min.	Typ.	Max.	Notes
Efficiency @120Vac		86%	88%	-	Measured at 100% load and 25°C ambient temperature
Efficiency @230Vac		86%	88%	-	Measured at 100% load and 25°C ambient temperature
Efficiency @277Vac		85%	87%	-	Measured at 100% load and 25°C ambient temperature
Dielectric Strength	Input-Output	-	3750Vac	-	5mA/60S
	Input-PE	-	1875Vac	-	
	Output- PE	-	1600Vac	-	
Grounding Resistance		-	-	0.1Ω	25A/60S
Insulation Resistance		10MΩ	-	-	Input-Output, Input-PE, Output-PE, 500Vdc/60s/25°C/70%RH
MTBF		-	200KHours	-	230Vac, 80% load (MIL-HDBK-217F)
Lifetime		-	50KHours	-	230Vac & 100% load, 75°C case temperature, refer to lifetime VS Tc curve for details
Ambient Temperature		-40°C	-	+60°C	
Operating Case Temperature for Safety Tc_s		-40°C	-	+85°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 (L×W×H)mm		119*65*34mm			
Net Weight		470±50g/PCS			
Package		L488xW298xH200; 15PCS/Ctn, Gross Weight: 8.5Kg			

SAFETY STANDARDS

Safety Category	Country / Territory	Standards	Whether have Certification
CCC	China	GB19510.1, GB19510.14	√
CE	Europe	EN61347-1, EN61347-2-13	√
		EN62493	√
ENEC		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

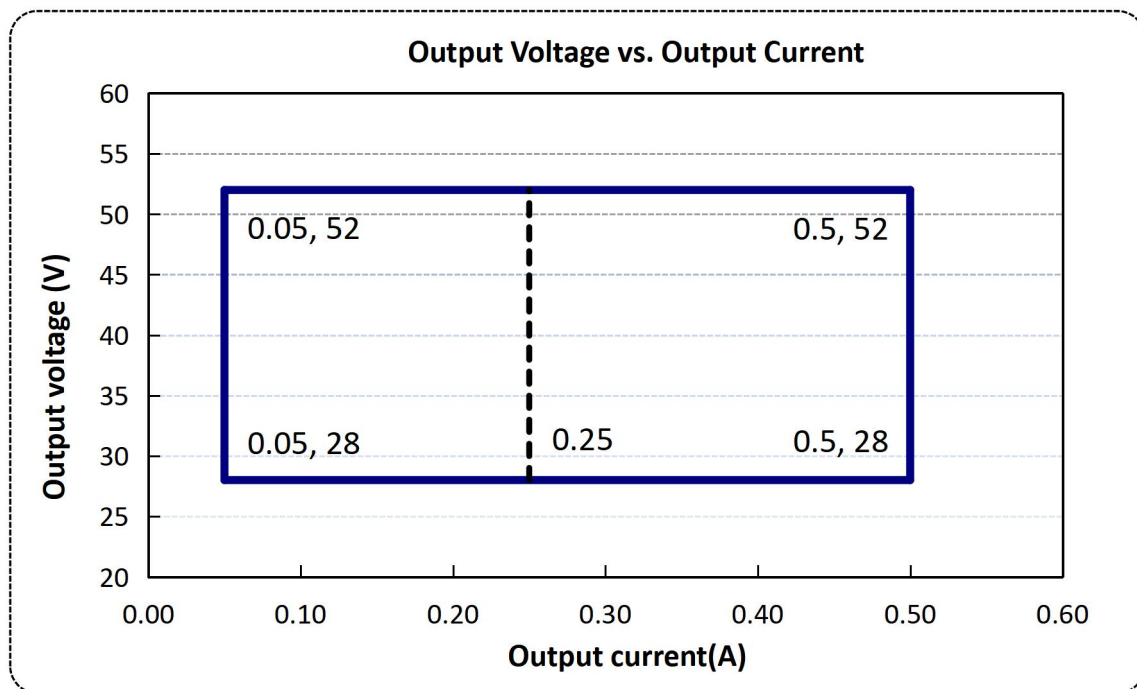
EMC Category	Country / Territory	Standards	Whether have Certification
CCC	China	GB/T 17743, GB 17625.1	√
CE	Europe	EN 55015	√
		EN 61000-3-2, EN 61000-3-3	√
		EN61000-4-2,3,4,5,6,11	√
		EN 61547	√
KC	South Korea	K61547	
		K00015	
PSE	Japan	J55015	
FCC	USA	FCC part 15	

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.

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.
Output over Voltage Protection	Run into protection mode when output voltage exceeds limit, and return to normal when the fault is eliminated and restart the power supply.

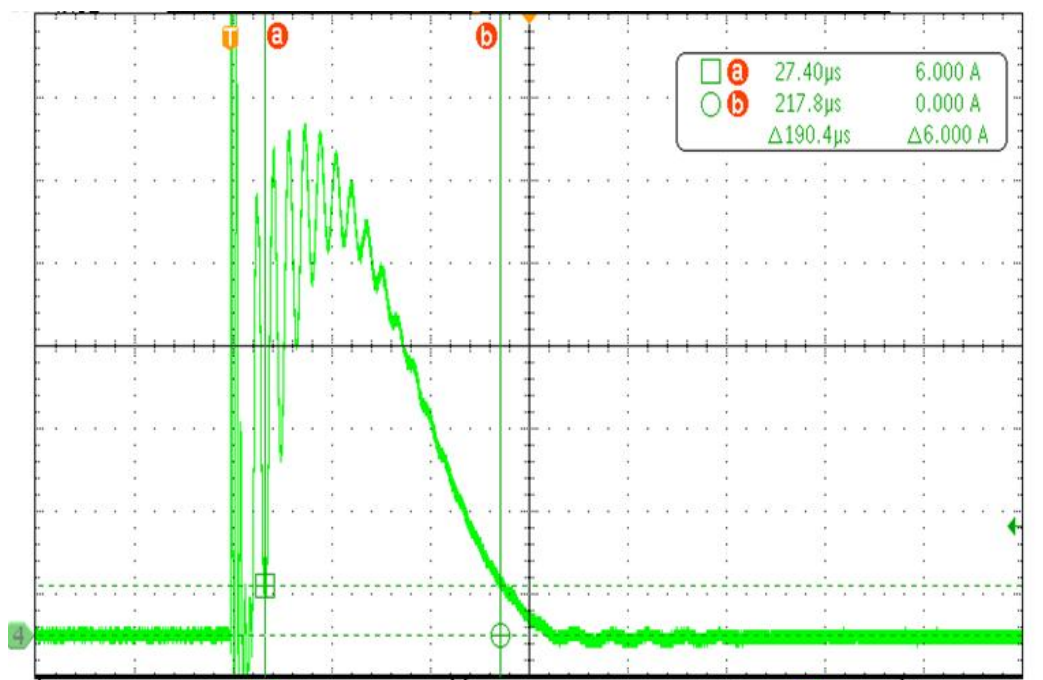
OPERATING AREA I-V



Notes:

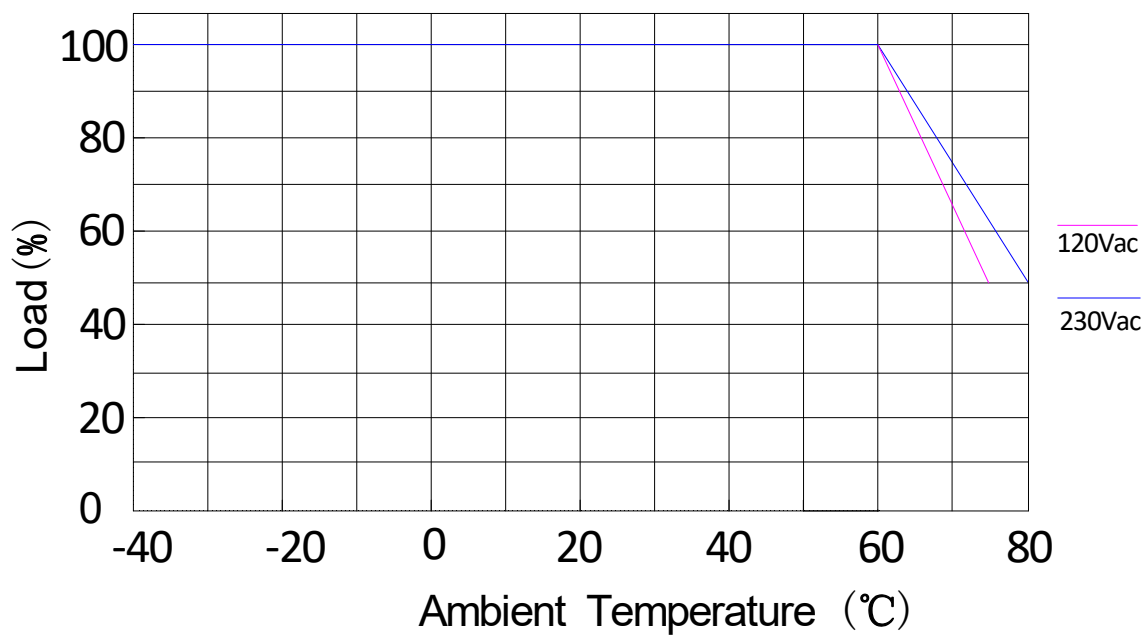
1. The drivers are not allowed to work in over-load condition, otherwise warranty will expire.
2. $Y = V$ for the region to the right of the dotted line, $Y = M$ for the region containing the solid line.

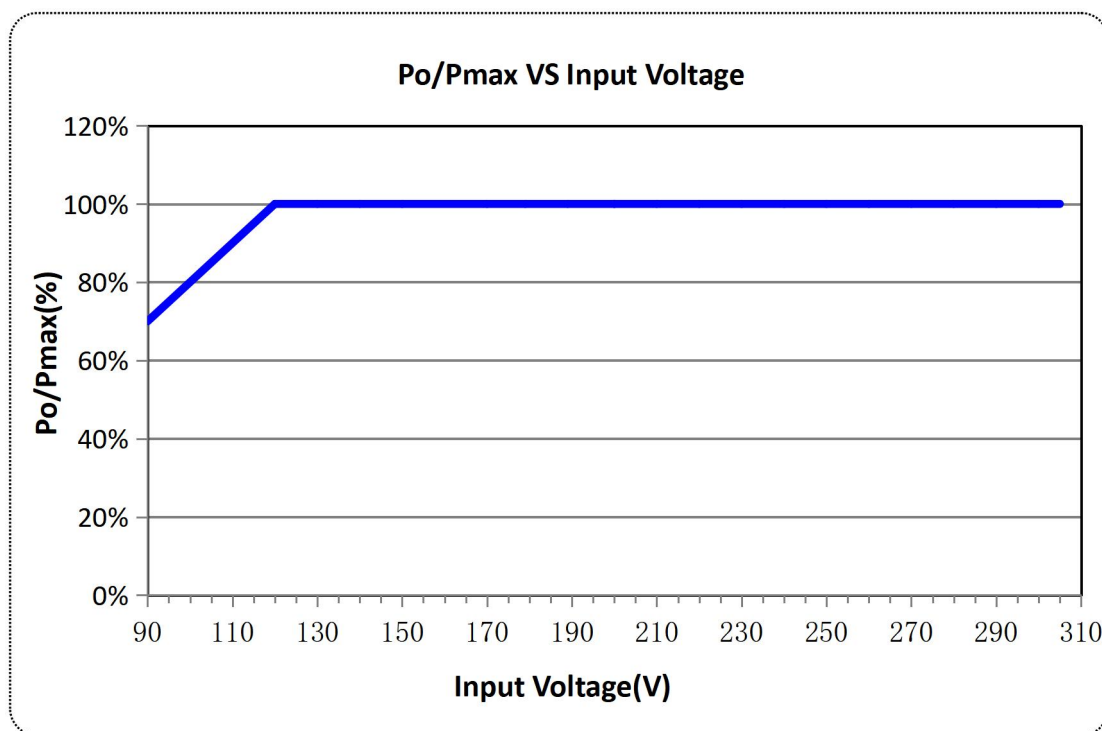
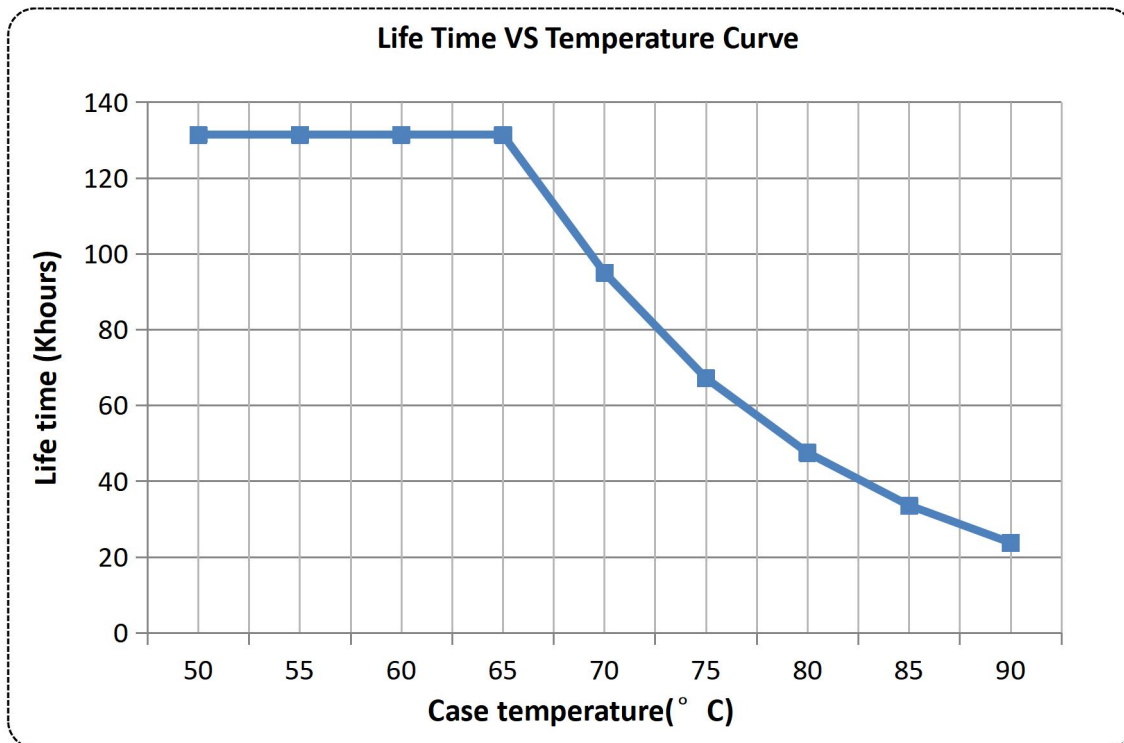
INRUSH CURRENT WAVEFORM



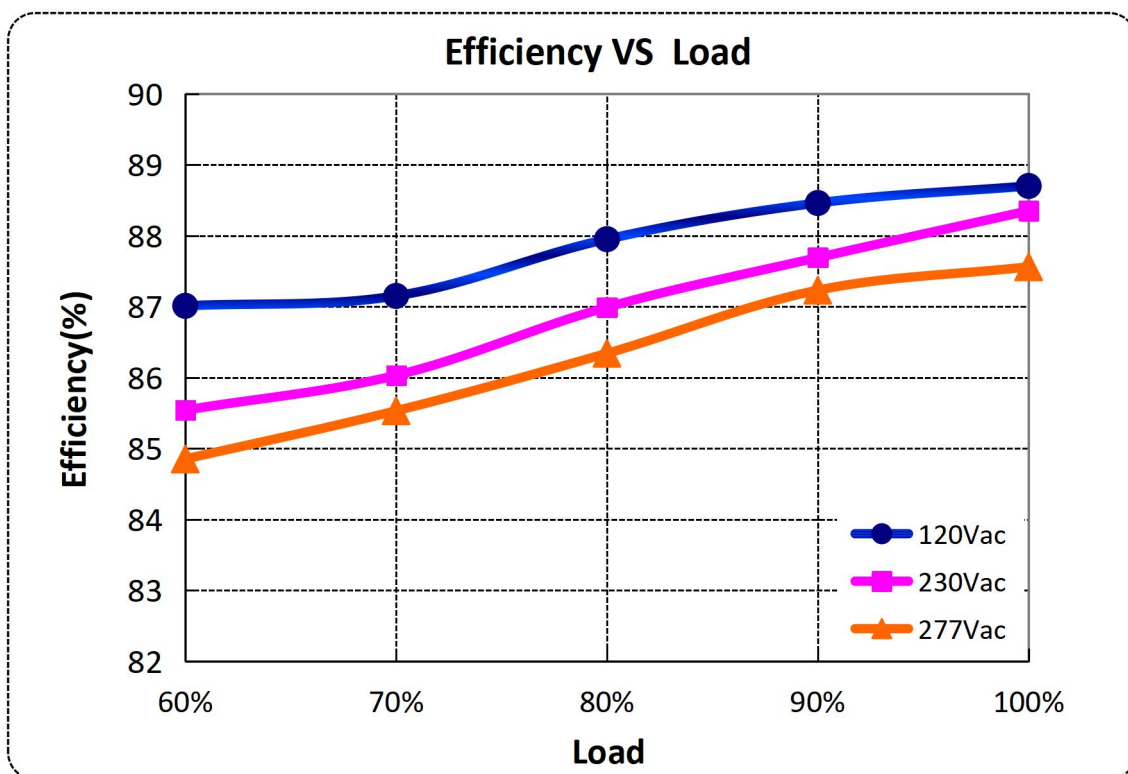
DERATING CURVE

Derating Curve

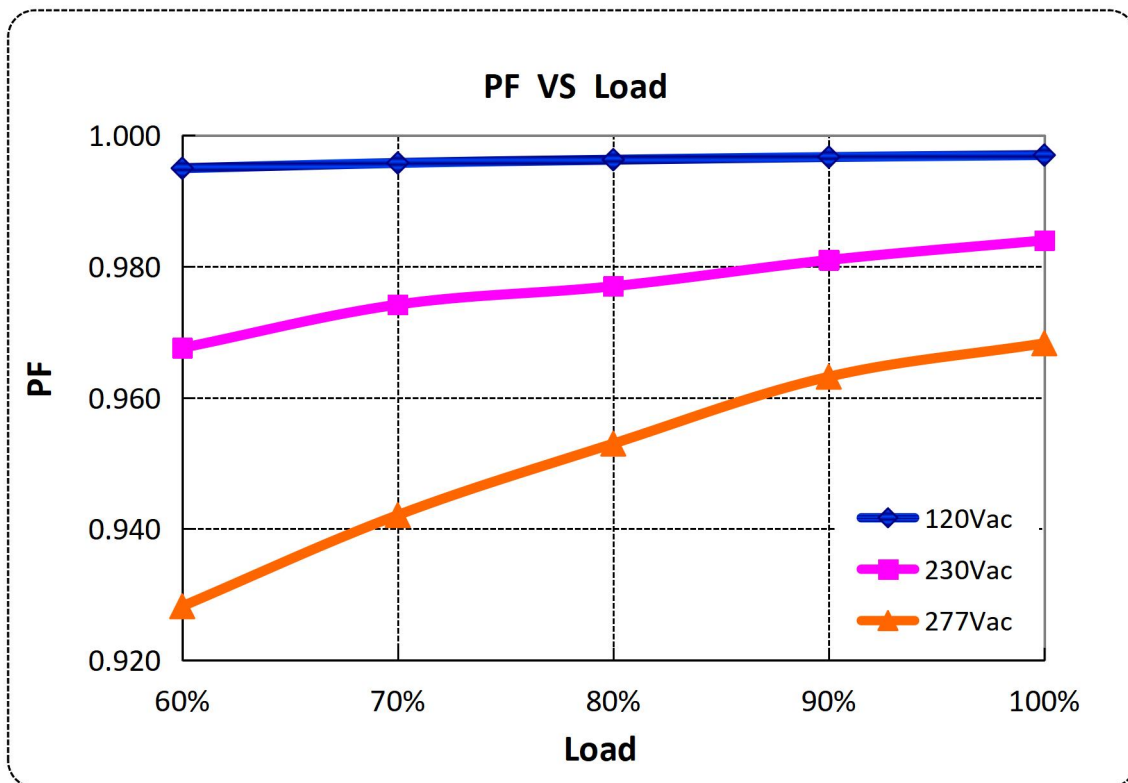


OUTPUT POWER VS INPUT VOLTAGE**LIFETIME VS CASE TEMPERATURE**

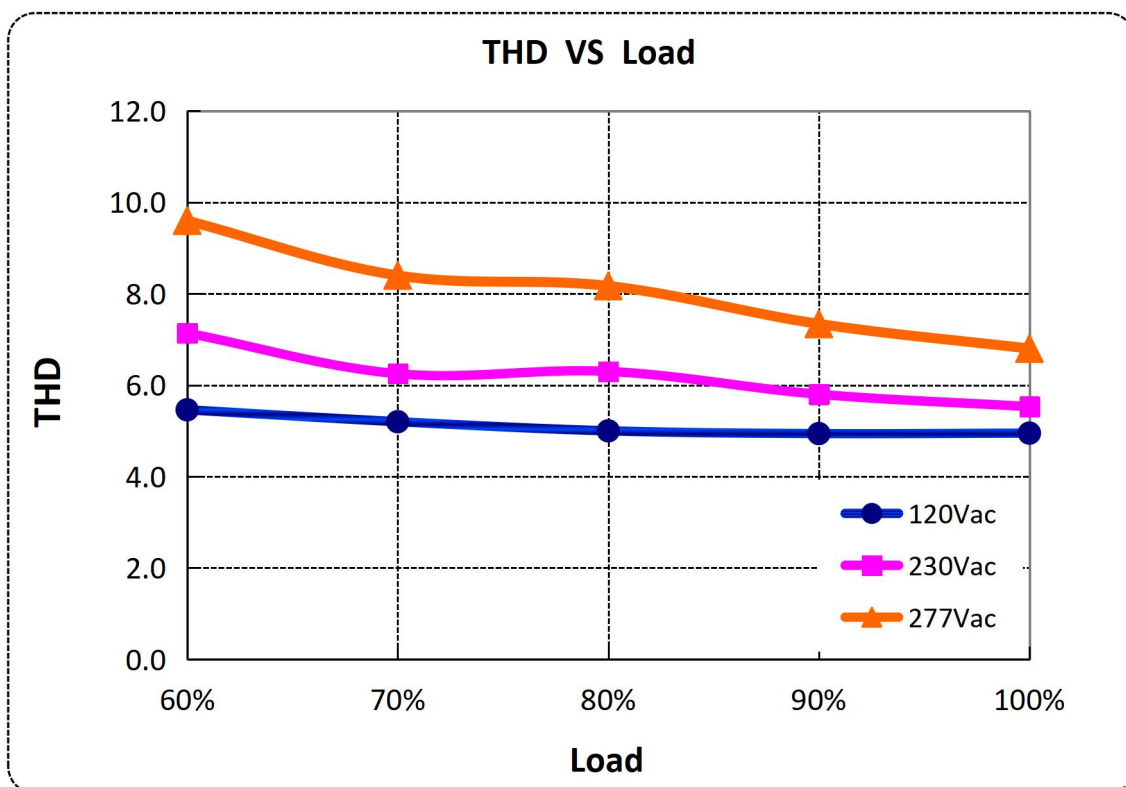
EFFICIENCY VS LOAD



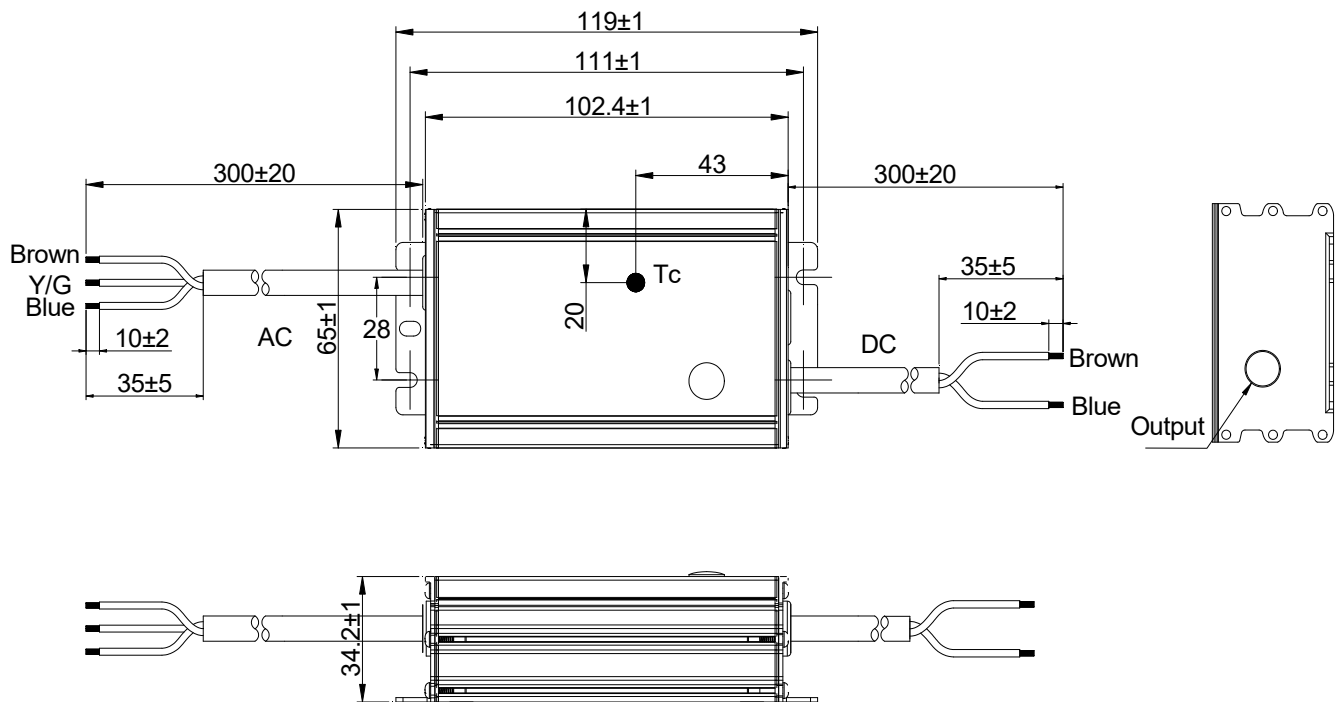
POWER FACTOR VS LOAD



TOTAL HARMONIC DISTORTION



MECHANICAL OUTLIN



Wire	Specification	Note
Input	CCC+VDE H05RN-F *3C L=300±20mm	CCC/CE
Output	CCC+VDE H05RN-F *2C L=300±20mm	CCC/CE

LABEL

