

## Specification for Approval

Product Name: 320W High Bay Driver

Product Model: G6-320V260T (II)

Rev. A.2

Address: Xi Li Song bai Road 1061, Nanshan District, Shenzhen City, Guangdong Province, P.R. China

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Prepared By	Checked By	Approved By

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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		

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**ECN History**

A.2	First edition	2024-10-28

## Description

G6T-( II ) series is specially designed for industrial lighting applications. It is constant current LED driver that operates from 90-305Vac. Internal potentiometer and dip switch can adjust power and color temperature. Such round integrated structure enables the driver to have a better heat dissipation, significantly improving reliability and extending product lifetime. To ensure trouble-free operations, protection is provided against input surge, output over voltage, short circuit, and over temperature.



## Product Features

- Universal input voltage: 90~305Vac;
- Non-isolated constant current design, Efficiency up to 96%;
- Surge protection: DM: 6KV, CM: 6KV;
- Protection: SCP/OVP/OTP;
- Ingress protection rating: IP65;
- Warranty: 5 years.

## Application

Suitable for industrial lighting.

## Models

Model	Input Voltage (Vac)	MAX Output Power (W)	Output Voltage (Vdc)	Output Current Adjustable Range (A)	Default Current (A)	Eff. (Typ.)	PF(Typ.)	THD(Typ.)
G6-320V260T ( II )	90~305	320	180~260	0.75~1.5	1.25	96%	0.97	10%

Notes:

[1].All specifications are measured at 25°C ambient temperature, input voltage 230Vac, and the typical value tested at full load, if no specific note.

## Optional Model Features

Model	Dim to off 0-10V/PWM /Resistor	1-10V/PWM /Resistor	Adjustable power ( single DIP)	Adjustable power/ color temperature ( double DIP)	Stepless dimming	Without afterglow
G6-320V260T ( II )	-	-	-	-	-	-

## Input Specifications

Parameter	Min.	Typ.	Max.	Notes
Input Voltage Range	90Vac	-	305Vac	
Rated Input Voltage	100Vac	-	277Vac	Refer to Output Power vs. Input Voltage Curve
Input Frequency AC	47Hz	50/60Hz	63Hz	
Max Input Current	-	-	3.6A	120Vac&100% load
Max Input Power	-	-	360W	120Vac&100% load
Leakage	-	-	0.70mA	IEC 60598-1; 240Vac/50Hz
Inrush Current	-	-	100A	220Vac, 100% load
Power Factor	0.95	0.97	-	230Vac, 50/60Hz, 100% load
	0.90	-	-	120-277Vac, 50/60Hz, 70%-100% load
THD	-	8%	10%	230Vac, 50/60Hz, 100% load
	-	-	20%	120-277Vac, 50/60Hz, 70%-100% load
MCB(B16)	-	4	-	230Vac; 100% load

## Output Specifications

Parameter	Min.	Typ.	Max.	Notes
Output Voltage Range	180Vdc	-	260Vdc	
Open Circuit Voltage	-	-	310Vdc	
Output Current Adjustable Range	0.75A	-	1.5A	
Full Power Current Range	1.23A	-	1.5A	213-260Vdc
Current Accuracy	-8%	-	+8%	
Total Output Current Ripple (pk-pk)	-	10%	15%	20MHz BW full load&LED load the LED load ripple is slightly different for different LEDs
Startup Overshoot Current	-	-	10%	120-277Vac full load condition, LED load
Line Regulation	-5%	-	+5%	25°C±10°C ambient temperature, input voltage changes from 120Vac to 277Vac
Load Regulation	-5%	-	+5%	25°C±10°C ambient temperature, 230Vac input, load changes from 70% to 100%
Turn-on Delay Time	-	-	1.0s	120-277Vac, 100% load

## General Specification

Parameter	Min.	Typ.	Max.	Notes
Efficiency @120Vac	91%	93.5%	-	1.0A, 240Vdc; 25°C ambient temperature, no load of auxiliary source
Efficiency @230Vac	93%	96%	-	1.0A, 240Vdc; 25°C ambient temperature, no load of auxiliary source
Efficiency @277Vac	94%	96%	-	1.0A, 240Vdc; 25°C ambient temperature, no load of auxiliary source
MTBF	-	200Khours	-	25°C±10 ambient temperature, 230Vac, 80% load (MIL-HDBK-217/SR-332)
Lifetime	-	50Khours	-	230Vac&100% load, Tc 75°C, refer to lifetime vs. case temperature curve
Operating Temperature Ta	-40°C	-	+50°C	
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 shell temperature Humidity: 10%-90% RH
Storage Temperature Ta	-40°C	-	+85°C	Humidity: 5%-95% RH
Altitude	-60m	-	4000m	
Over Temperature Protection Tc	90°C	95°C	100°C	Decreases output current, returning to normal after over temperature is removed
Short Circuit Protection	-	-	15W	Constant current mode. The output shall return to normal when the fault condition is removed.
Output Over Voltage Protection	-	-	5W	When the output voltage of the product exceeds the limit range, it will enter the protection state. When the fault is removed, the product will automatically return to normal.
Dimensions (Φ*H)mm	Φ146*H61.8			
Net Weight	1000±50g/PCS			
Package (L*W*H)	490*370*169 mm; 8PCS/Ctn., GW:8.2Kg			

## Safety Specifications

Parameter	CE	Note
Dielectric Strength (Input-Ground)	1600Vac	
Grounding Resistance	$\leq 0.1\Omega$	25°C±10°C Ambient Temperature, pass 25A Current, 60s.
Insulation Resistance	$\geq 10M\Omega$	Input-PE, 500Vdc/60s/25°C

Notes: The voltage resistance requirement of aluminum substrate is greater than 2KVac.

## Safety Compliance

Safety Category	Safety normative standards	Certification	Notes
CCC	GB19510.1, GB19510.14	√	
CE	EN61347-1, EN61347-2-13, EN62493	√	
ENEC	EN61347-1, EN61347-2-13, EN62384	√	
CB	IEC61347-1, IEC61347-2-13	√	
BIS	IS 15885(PART 2/SEC 13)		
UL	UL 8750	√	
CUL	CSA C22.2 No.250.13	√	
KC	K61347-1, K61347-2-13		
PSE	J61347-1, J61347-2-13		
SAA	AS/NZS IEC 61347.2.13	√	
SAA	AS/NZS 61347.1	√	

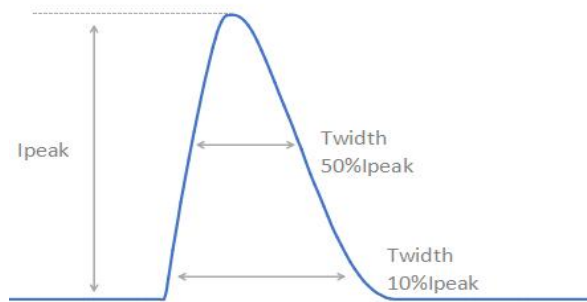
## EMC Compliance

EMC Category	Standards	Approved	Notes
CCC	GB/T 17743, GB 17625.1	√	
CE	EN 55015	√	
CE	EN 61000-3-2, EN 61000-3-3	√	
CE	EN61000-4-2,3,4,5,6,11	√	
CE	EN 61547	√	
KC	K61547		
KC	K00015		
PSE	J55015		
FCC	FCC part 15	√	Class B
Surge Shock Immunity	ANSI/C82.77-5-2017		
	IEC/EN 61000-4-5	√	
Ringing Wave	IEC/EN 61000-4-12		
	ANSI/IEEE C62.41.2		

## RoHS

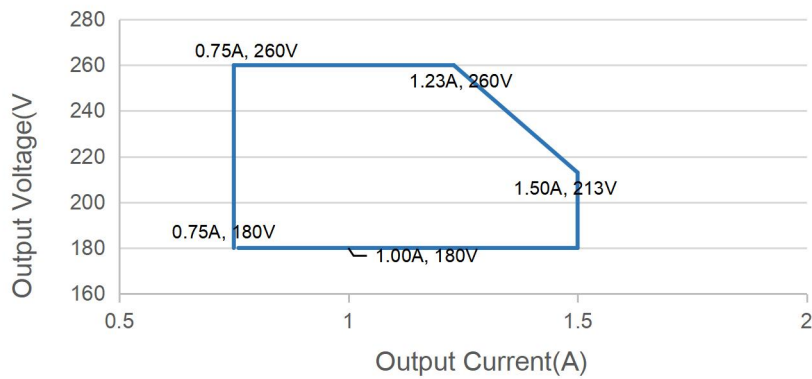
Our products comply with reference to RoHS Directive (EU) 2015/863 amending 2011/65/EU.

**Inrush Current Waveform**

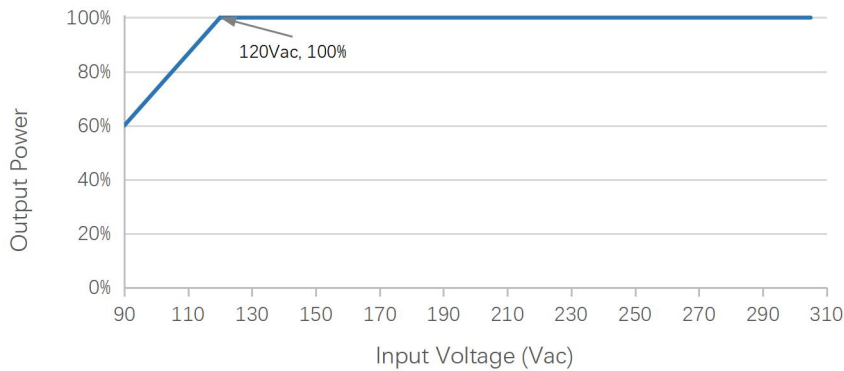


$V_{in}$	$I_{peak}$	$T(@10\% \text{ of } I_{peak})$	$T(@50\% \text{ of } I_{peak})$
230Vac	50A	1120 $\mu$ s	560 $\mu$ s

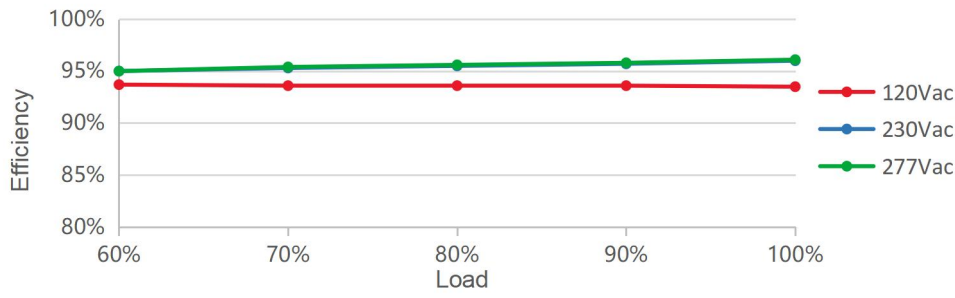
**Output Voltage vs. Output Current**



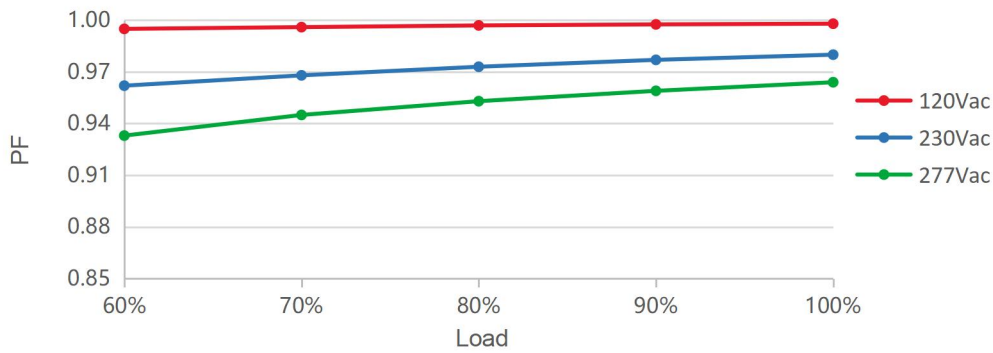
**Output Power vs. Input Voltage**



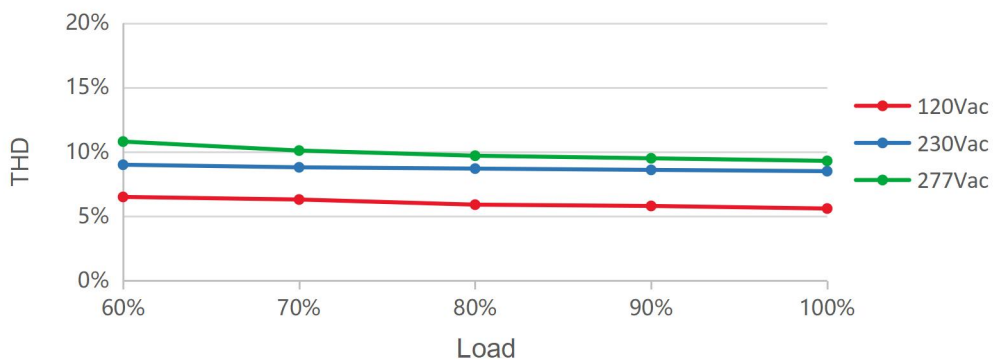
**Efficiency vs. Load**



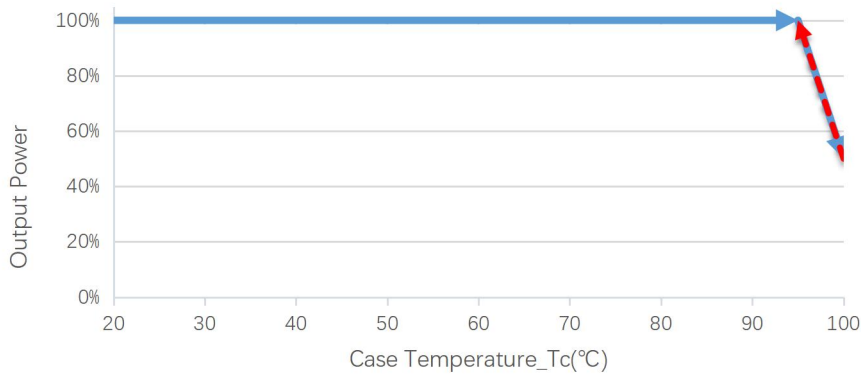
**PF vs. Load**



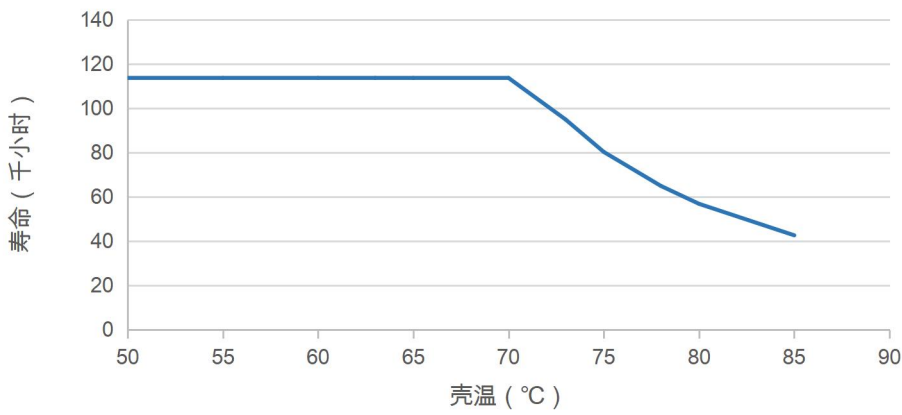
**THD vs. Load**



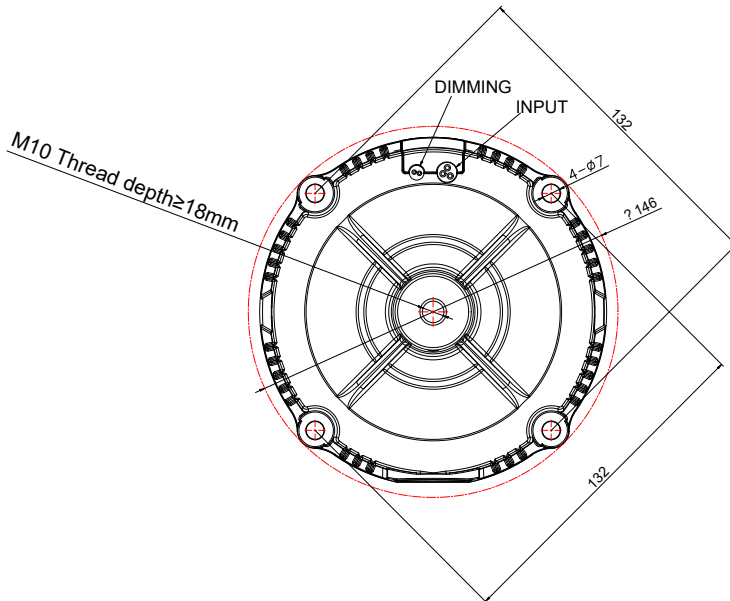
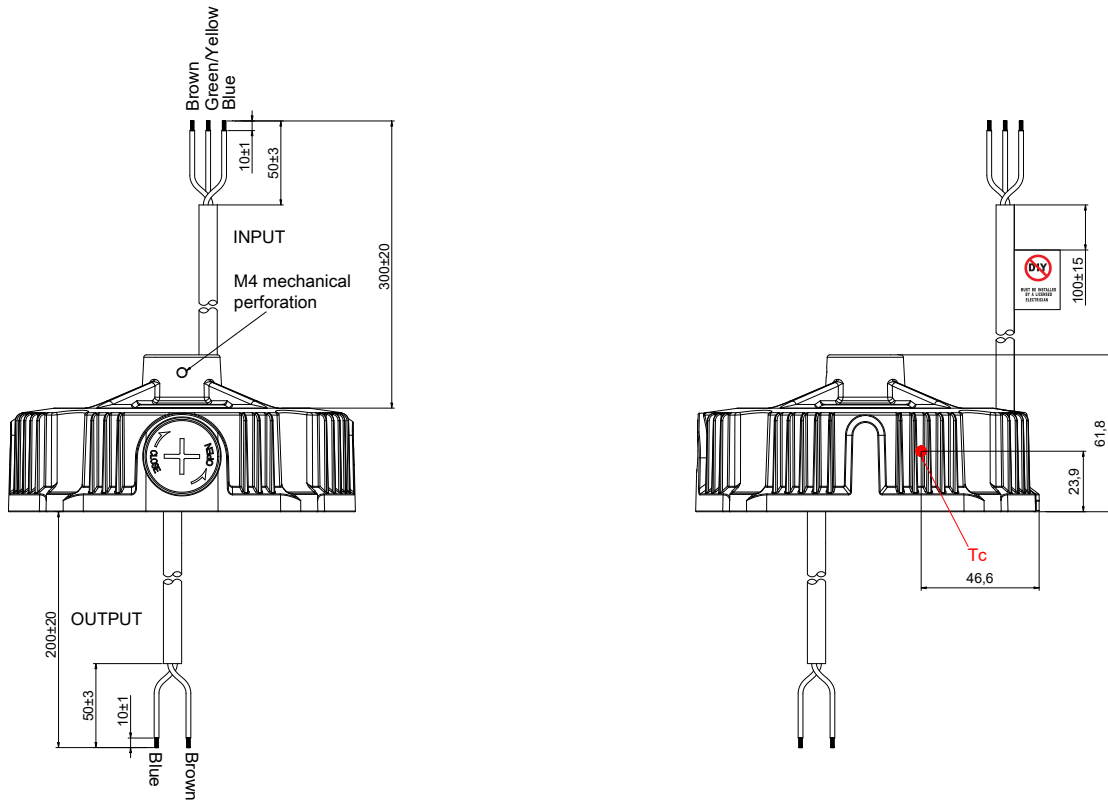
**Output Power vs. Case Temperature**



### Lifetime vs. Case Temperature



### Mechanical Outline



### Specifications

Input	CCC+VDE 3x1.0mm <sup>2</sup> L=300±20mm	CCC/CE
Output	CCC+VDE 2x1.0mm <sup>2</sup> L=200±20mm	CCC/CE

Label

