

2023-V1.0-0512 Specifications

LED Power Supplies
PGMW-320V Series, 320W

PAIRUI ELECTRONICS

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LED Power Supplies PGMW-320V SERIES, 320WATT, IP67 RATING

Features

- ·Universal AC input range
- ·Fully encapsulated with IP67 level
- ·Protections: short circuit, over load, over voltage, over temperature
- ·Cooling by free air convection
- ·Built in active PFC function, PF≥0.95
- •Efficiency up to 92%
- ·100% full load burn-in test
- ·Suitable for LED lighting and moving sign applications
- ·Compliance to worldwide safety regulations for lighting
- ·5 Years warranty





Dimension: 244×71×37.5mm

Applications

✓ Street Light

- ✓ Tunnel Light
- ✓ Flood Light

Other Light Fixtures for Outdoor Use



	Model	PGMW320V12	PGMW320V24	
	DC voltage	12V	24V	
Output	Rated current	26.5A	13.3A	
	Current range	0~26.5A	0~13.3A	
	Rated power	318W	319.2W	
	Ripple&noise	150mVp-p	150mVp-p	
	Voltage tolerance	± 2.0%	± 1.0%	
	Line regulation	± 0.5%		
	Load regulation	± 1.5% ± 1.5%		
	Setup,rise,hold time	2500ms,20ms,24ms/230VAC 1500ms,20ms,24ms/115VAC at full load		
	Voltage range	90~264VAC 127~370VDC 47~63Hz		
	AC current	6.0A/115VAC 4.0A/230VAC		
-	Efficiency	89%	92%	
Input	Power factor	PF≥0.95/230VAC PF≥0.98/115VAC (at full load)		
	Total Harmonic Distortion	THD<20% (90/264VAC input,output load>50%)		
	Inrush current	Cold start 65A/230VAC (twidth=880 μ s measured at 50% Ipeak)		
	Leakage current	<2mA/240VAC		
	Overload	110~140% rated output power Start overload protection		
		Protection type: Hiccup mode, auto-recovery after fault condition is removed		
Protection	Over voltage	13.8~16.2V 27.6~32.4V		
		Protection type: Shut down output voltage, re-power on to recover		
	Over temperature	105°C±10°C(RTH3 detect at transformer side)		
		Protection type: Shut down output voltage, recovers automatically after temperature goes down		
Environment	Working temperature	-30°C~+60°C(Please refer to"derating curve")		
	Working humidity	20%~90%RH Non-condensing		
	Storage temp, humidity	–40°C ~ +85°C;10% ~ 95%RH		
	Temp.coefficient	± 0.03%/°C (0~50°C)		
	Vibration	10~500Hz, 5G 12min./1Cycle, Period for 72min, Each axes		
	Safety standards	UL1020,CAN/CSA-C22.2No. 107.1-01,UL8570,CSA C22.2 No,250.0-08,TUV EN61347-1		
		EN61347-2-13 independent, UL 62368-1,UL8750,TUV EN 62368-1		
		IP67 certificated, J61347-1, J61347-2-13		
-	Withstand voltage	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC		
Safety& EMC	Isolation resistance	I/P-O/P: 100M Ohms/500VDC/25°C/70%RH		
E/NC	EMC emission	Compliance to EN55015- CLASS B, EN61000-3-2 Class C (60% load); EN61000-3-3		
		Compliance to EN61000–4–2,3,4,5,6,8,11; EN61547, EN55024, light industry level (surge 4KV), criteria A		
	EMC immunity MTBF	180K hrs min. MIL-HDBK-217F(25°C)		
Others		()		
	Dimension	244*71*37.5 mm(L*W*H)		
	Packing	1.35kg/20pcs/28kg/0.025m³/1.15CUFT		

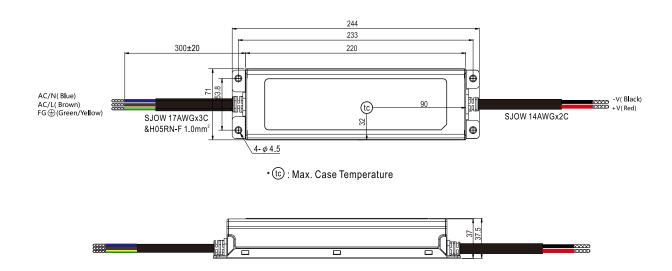
Note:

- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
- 4. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.
- 5. Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minute.
- 6.Derating may be needed under low input voltage. Please check the static characteristics for more details.
- 7.Length of set uo time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.



Mechanical specification

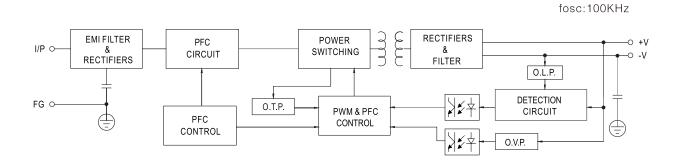
Unit:mm



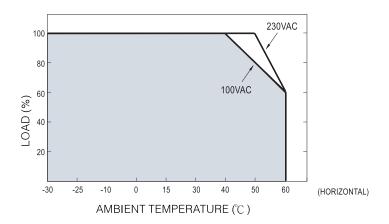
Lead-out wire assignment

Input(Black	(three-core)	Output (Black two-core)	
Brown	AC/L	Brown	DC OUTPUT +V
Blue	AC/N	Blue	DC OUTPUT -V
Yellow-green	FG ±		

Block diagram



Derating curve



Static characteristic

