



2023-V1.0-0512

Specifications

LED Power Supplies

PGMW-320V Series, 320W

PAIRUI ELECTRONICS

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2023



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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








IP67 SELV RoHS

Applications

- ✓ Street Light
- ✓ Tunnel Light
- ✓ Flood Light
- ✓ Other Light Fixtures for Outdoor Use

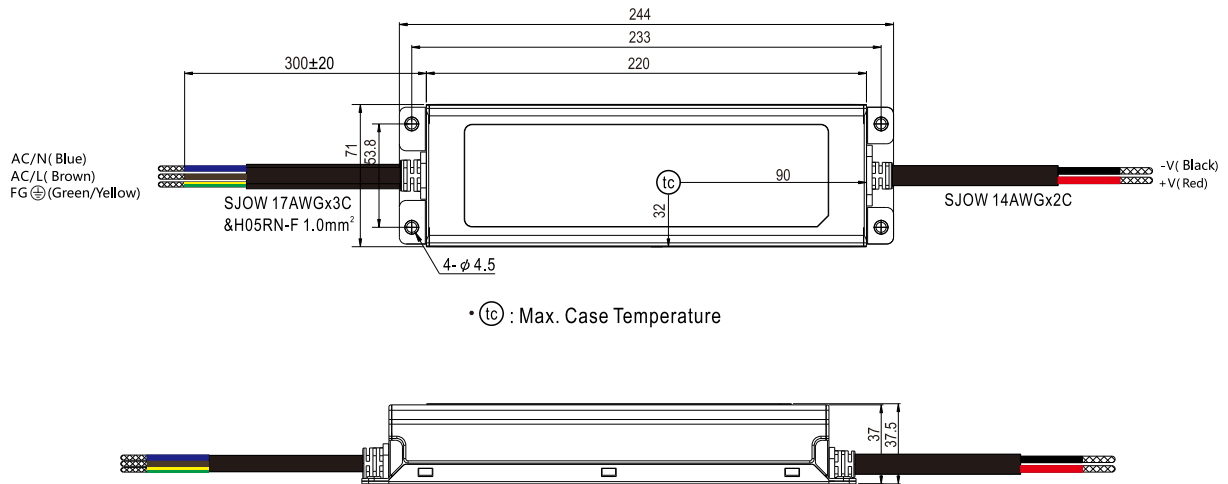
	Model	PGMW320V12	PGMW320V24
Output	DC voltage	12V	24V
	Rated current	26.5A	13.3A
	Current range	0~26.5A	0~13.3A
	Rated power	318W	319.2W
	Ripple&noise	150mVp-p	150mVp-p
	Voltage tolerance	± 2.0%	± 1.0%
	Line regulation	± 0.5%	
	Load regulation	± 1.5%	± 1.5%
	Setup,rise,hold time	2500ms,20ms,24ms/230VAC 1500ms,20ms,24ms/115VAC at full load	
Input	Voltage range	90-264VAC 127-370VDC 47-63Hz	
	AC current	6.0A/115VAC 4.0A/230VAC	
	Efficiency	89%	92%
	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% I _{peak})	
	Leakage current	< 2mA/240VAC	
Protection	Overload	110-140% rated output power Start overload protection Protection type: Hiccup mode, auto-recovery after fault condition is removed	
	Over voltage	13.8~16.2V	27.6~32.4V
	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& EMC	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	
	Isolation resistance	I/P-O/P: 100M Ohms/500VDC/25°C/70%RH	
	EMC emission	Compliance to EN55015- CLASS B, EN61000-3-2 Class C (60% load) ; EN61000-3-3	
	EMC immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, EN55024, light industry level (surge 4KV), criteria A	
Others	MTBF	180K hrs min.	MIL-HDBK-217F(25°C)
	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

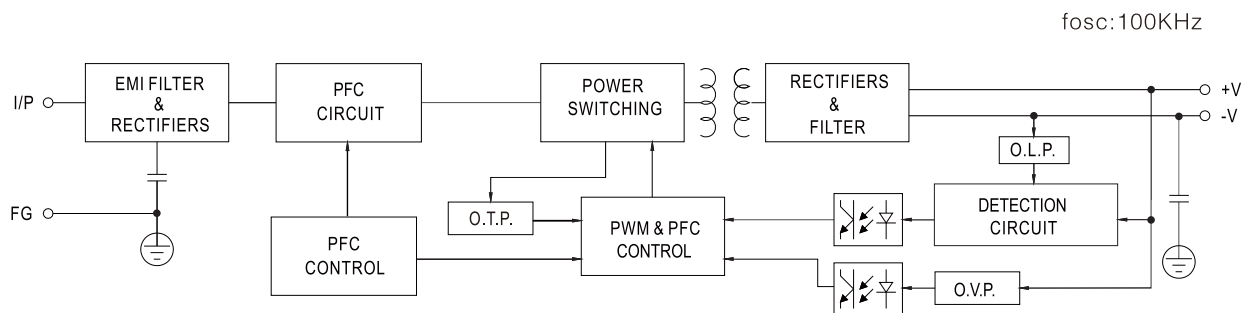
Unit:mm



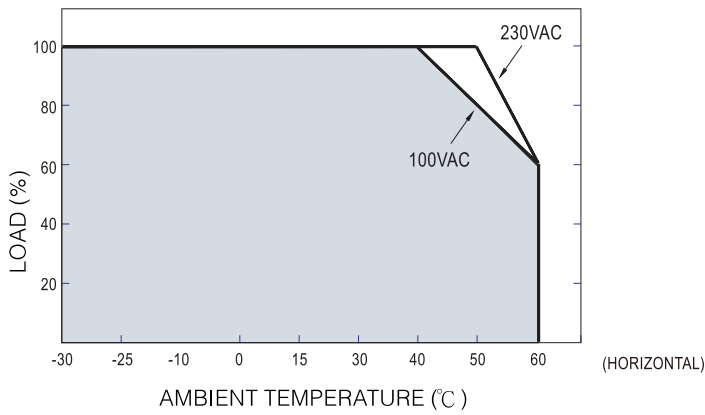
Lead-out wire assignment

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 \perp		

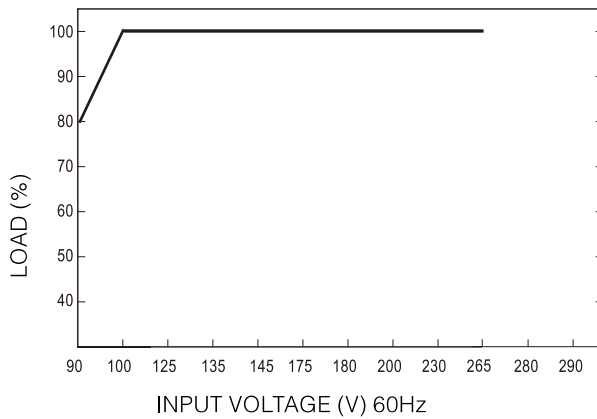
Block diagram



Derating curve



Static characteristic



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