

2023-V1.0-0512 Specifications

LED Power Supplies
PGMW-200V Series, 200W

PAIRUI ELECTRONICS

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LED Power Supplies PGMW-200V SERIES, 200WATT, 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 93%
- ·100% full load burn-in test
- ·Suitable for LED lighting and moving sign applications
- ·Compliance to worldwide safety regulations for lighting
- ·5 Years warranty





Street Light

- ✓ Tunnel Light
- √ Flood Light

Other Light Fixtures for Outdoor Use





	Model	PGMW200V12	PGMW200V24	PGMW200V36		
	DC voltage	12V	24V	36V		
Output	Rated current	16.5A	8.5A	5.6A		
	Current range	0~16.5A	0~8.5A	0~5.6A		
	Rated power	198W	204W	201.6W		
	Ripple&noise	150mVp-p	150mVp-p	150mVp-p		
	Voltage tolerance	± 2.0%	± 1.0%	± 1.0%		
	Line regulation	± 0.5%	1.50	4.50/		
	Load regulation	± 1.5%	± 1.5%	± 1.5%		
	Setup,rise,hold time	2500ms,20ms,24ms/230VAC 1500ms,20ms,24ms/115VAC at full load 90-264VAC 127-370VDC 47-63Hz				
Input	Voltage range AC current	3.2A/115VAC 1.6A/230VAC 3.2A/115VAC 1.6A/230VAC				
	Efficiency	90%	92%	93%		
	Power factor			73/6		
	Total Harmonic Distortion	PF≥0.95/230VAC PF≥0.98/115VAC (at full load) THD<20% (90/264VAC input,output load>50%)				
	Inrush current	Cold start 60A/230VAC (twidth=750µs measured at 50% lpeak)				
	Leakage current	< 2mA/240VAC				
Protection	3	110~140% rated output power Start overload protection				
	Overload	Protection type: Hiccup mode, auto-recovery after fault condition is removed				
		15.8~18V	30.6~33.6V	41.4~48.6V		
	Over voltage	Protection type: Shut down output voltage, re-power on to recover				
	_	105°C ± 10°C(RTH3 detect at transformer side)				
	Over temperature	Protection type: Shut down output voltage, recovers automatically after temperature goes dow				
	Working temperature	-30°C~+60°C(Please refer to"derating curve")				
	Working humidity	20%~90%RH Non-condensing				
Environment	Storage temp, humidity	-40°C ~ +80°C;10% ~ 95%RH				
	Temp.coefficient	±0.03%/°C (0~50°C)				
	Vibration Vibration	10~500Hz, 5G 12min./1Cycle, Period for 72min, Each axes				
	VIDITATION					
	Cafatu atau da uda	UL1020,CAN/CSA – C22.2No. 107.1-01,UL8570,CSA C22.2 No.250.0-08,TUV EN61347-1				
	Safety standards	EN61347-2-13 independent, UL 62368–1,UL8750,TUV EN 62368–1				
		IP67 certificated, J61347–1, J61347–2–13				
Safatu G	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				
	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	280K hrs min. MIL-HDBK-217F(25°C)				
	Dimension	244*71*37.5 mm (L*W*H)				
	Packing	1.3kg/20pcs/27kg/0.025m³/1.15CUFT				
	Packing	1.3kg/2upcs/2/kg/0.025ms/1.15	CUFI			

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

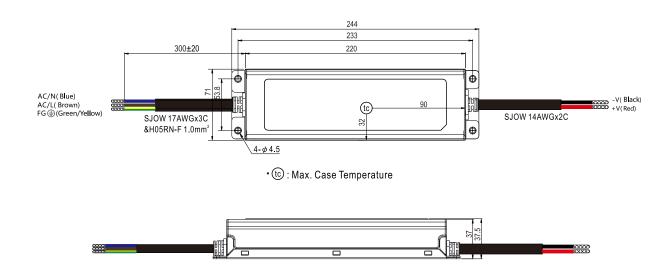
be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.

- 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

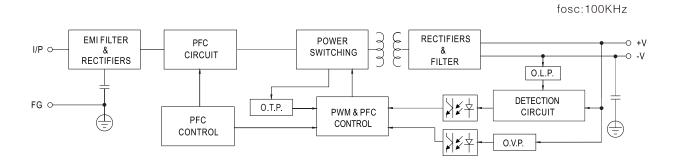
Unit:mm



Lead-out wire assignment

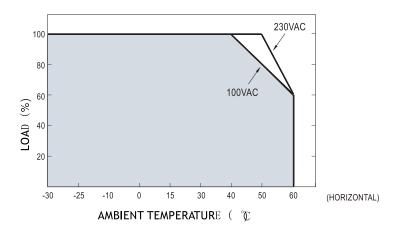
Input(Black	(three-core)	Output (Black two-core)	
Brown	AC/L	Brown	DC OUTPUT +V
Blue	AC/N	Blue	DC OUTPUT -V
Yellow-green	FG ±		

Block diagram





Derating curve



Static characteristic

