



2023-V1.0-0512

Specifications

LED Power Supplies

PGDH-100V Series, 100W

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2023

LED Power Supplies

PGDH-100V SERIES, 100WATT, IP67 RATING

Features

- Constant voltage design, ultra thin design
- 180-264VAC input range
- Small volume, low weight, high efficiency
- Protections: short circuit/over load/over voltage
- Cooling by free air convection
- Fully encapsulated with IP67 level
- 100% full load burn-in test
- 2 Years warranty



Dimension: 220×54×21mm

Applications

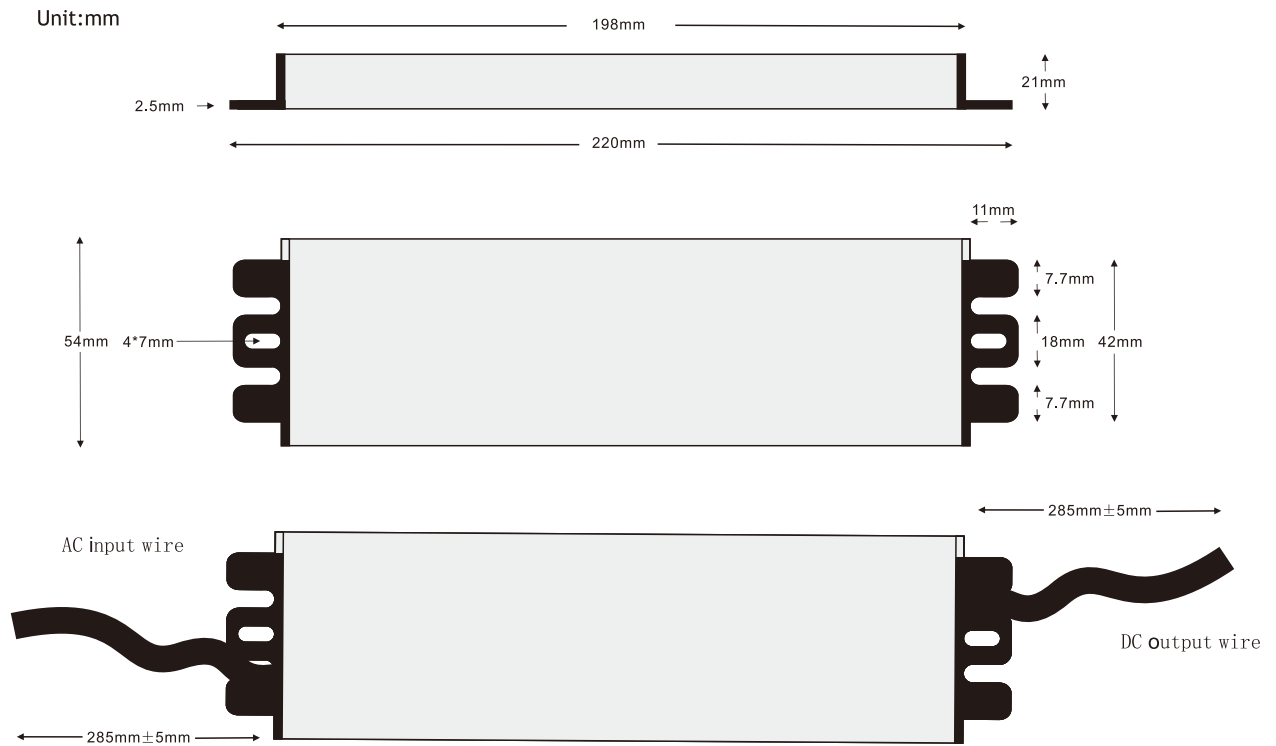
- ✓ Street Light
- ✓ Tunnel Light
- ✓ Flood Light
- ✓ Other Light Fixtures for Outdoor Use

	Model	PGDH100V12	PGDH100V24	PGDH100V36
Output	DC voltage	12V	24V	36V
	Voltage tolerance	± 3%	± 2%	± 2%
	Rated current	8.4A	4.2A	2.8A
	Current range	0~8.4A	0 ~ 4.2A	0 ~ 2.8A
	Rated power	100.8W	100.8W	100.8W
	Ripple&noise	150mVp-p	250mVp-p	250mVp-p
	Setup, rise, hold up time	500ms, 10ms, 10ms/230VAC		
Input	Voltage range	180 ~ 264VAC 47 ~ 63Hz, 126 ~ 373VDC		
	AC current	0.9A/230VAC		
	Efficiency	87%	88%	88%
	Inrush current	Cold start 50A/230VAC		
	leakage current	< 0.75mA/240VAC		
Protection	Overload	Rated output power 110% ~ 115% Start overload protection Protection type: hiccup mode, auto-recovery after fault condition is removed		
	Over Voltage	15.8 ~ 18V	30.63 ~ 3.6V	44 ~ 48.6V
		Protection type: hiccup mode, auto-recovery after fault condition is removed		
Environment	Working temp, humidity	-20°C ~ +60°C; 20% ~ 90%RH (Please refer to "derating curve")		
	Storage temp, humidity	-40°C ~ +85°C; 10% ~ 95%RH Non-condensing		
	Withstand vibration	10~500Hz, 5G 10min./1Cycle, Period for 60min, Each axes		
Safety	Withstand voltage	I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC		
	Isolation resistance	I/P-O/P: I/P-FG, O/P-FG: 100M Ohms/500VDC		
Fit standard	Safety standard	Compliance to IEC 62368-1, EN 62368-1		
	EMC Standard	Compliance to EN 55032 Class A, EN 61000-3-2, 3, EN 55024, EN 61000-4-2, 3, 4, 5, 6, 8, 11		
Others	MTBF	550K hrs min. MIL-HDBK-217F(25°C)		
	Weight/Dimension	220*54*21mm (L*W*H)		
	Packing	0.5kg/40pcs/20.6kg/0.022m³/0.8CUFT		

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.

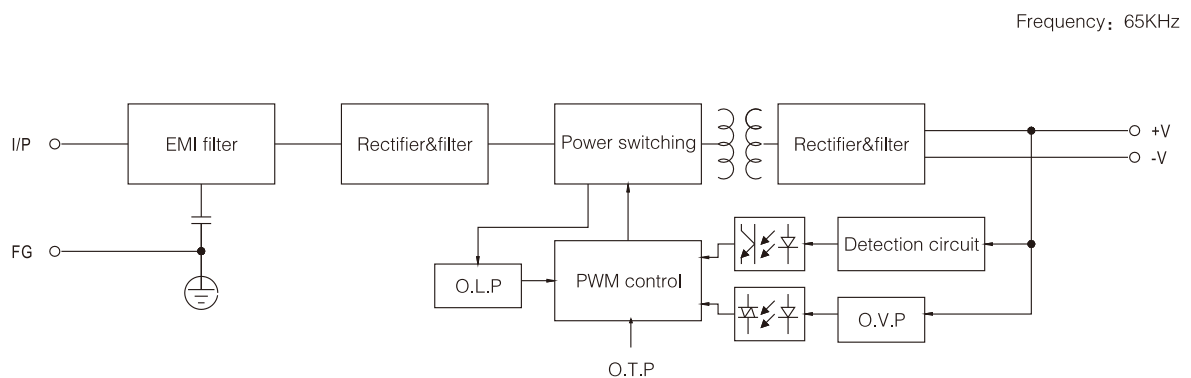
Mechanical specification



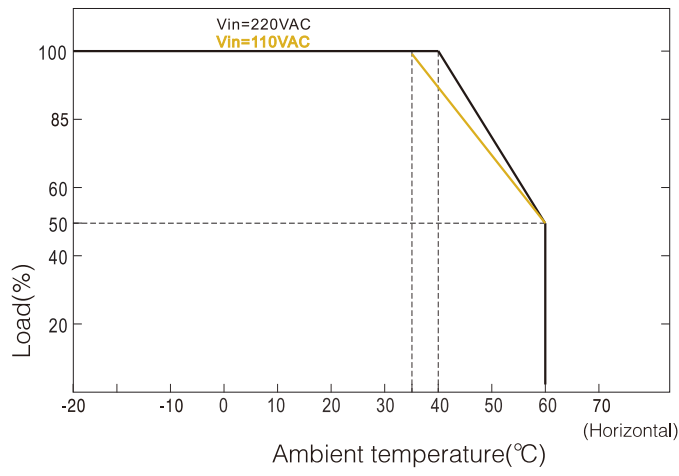
Lead-out wire assignment

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

Block diagram



Derating curve



Static characteristic

