



## 60W Waterproof LED Power Supply Single Output

SIZE  
L:158mm  
W:52 mm  
H:32mm



### ■Features

- AC input: 176-264V
- Protection: short-circuit, overload, over voltage, over temperature
- 100% full-load aging test
- 300VAC surge for 5 seconds withstandable
- Working temperature up to 60°C
- 5G vibration tested
- High efficiency, long life span, and high reliability, low cost
- IP67 grade
- 2 years warranty

### ■Application

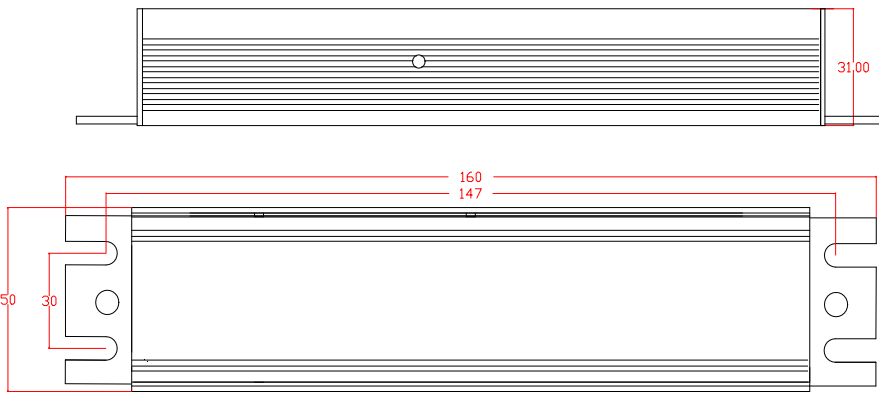
- \*Industrial automation machinery
- \*industrial control system
- \*LED lighting
- \*Mechanical and electrical equipment
- \*Electronic instruments, equipments or apparatus



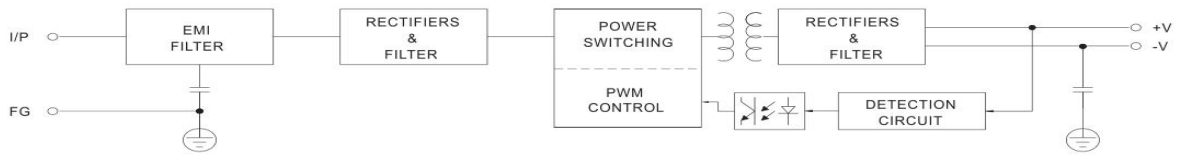
### Specifications

Product No.		WPS-60-12	WPS-60-24
Output	DC voltage	12V	24V
	Rated Current	5A	2.5A
	Current Range	0-5A	0-2.5A
	Rated Power	60W	60W
	Ripple and Noise(Max)Note.2	220mVp-p	250mVp-p
	Voltage adjustment	11.6-12.4v	23.3-24.4V
	Voltage Accuracy Note3	±3%	±3%
	Linear Adjustment Note4	±0.5%	±0.5%
	Load Adjustment Note5	±2%	1.50%
	Start and rise time	1000ms,30ms/230VAC 1000ms,30ms/176V	
Hold time (Typ)	50ms/230VAC 10ms/176AC		
Input	Voltage range	176-264VAC	
	Frequency range	47-63HZ	
	Efficiency (Typ)	84%	86%
	AC current (Typ)	0.82A/176V 0.52A/220V	
	Surge current (Typ)	Cold Start: 45A/230VAC	
	Current leak	<2mA/240VAC	
Protection	Overload	Range: 110%-140%	
	Overvoltage	Type: Hiccup mode, auto-recovery	
Environment	Working temp.	115%-145% rated output voltage. Shut down o/p voltage, re-power on to recover	
	Working humidity	-20~+60°C(Refer to the tenuation curve)	
	Storage temp & hmdty	20~90% RH, without condense	
	Temp. coefficient	-30~+60°C	
	Vibration proof	±0.03%/°C (0~50°C)	
Safety reg. & EMC (Note.6)	Safety regulation	10~500HZ,5G 10min / cycle, X、Y、Z axes 60 min each	
	Voltage proof	GB195110.1-2004/IEC61347-1:2003 CE(EMC+LVD)	
	insulation resistance	I/P-O:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC	
	EMC irradiation	I/P-O/P, I/P-FG,O/P-FG:100M Ohms/500VDC/25 °C/70% RH	
	EMC disturbance proof	EN 55015:2006;EN61000-3-2:1995+A2:2005	
Dimensions	Dimensions	EN 61000-3-2:2006;	
	Packing	158*52*32mm	
Notes:		0.85Kg	
		1. Unless specially indicated, all data are taken under 230VAC input, rated load and 25°C environment temp.	
		2. Ripple and noise: measured with a 12" double ripple cord connected in parallel with a 0.1μF and a 47 μF capacitor	
		3. Accuracy: including preset errors, linear adjustment rate and load adjustment rate.	
		4. Linear adjustment: taken under rated load from low voltage to high voltage.	
		5. Load adjustment: taken under 0~100% of rated load.	
	6. Power supply is taken as part of the whole system, and needs to be confirmed with terminal instruments for EMC.		

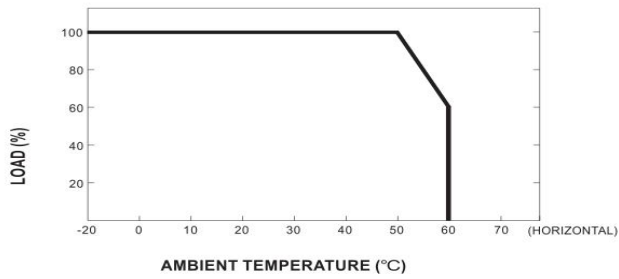
■ Appearance



■ Frame diagram



■ Tenuation curve



■ Static property curve

