

Power supplies in IP67 housing for electrical junction boxes

FEATURES:

- compact design
- IP67 cover
- reliable and powerful
- high efficiency
- compliant with international lighting standards
- safe energy source
- easy to mount
- noiseless operation

APPLICATIONS:

- general electronics
- home automation installations
- CCTV security and monitoring systems
- access control systems
- audio systems
- ventilation and small DC motors



The **LP-3012** series offers two compact, efficient power supplies designed for installation in a standard 60 mm junction box. Their design is based on high-quality electronic components, ensuring continuous, long-lasting operation in all conditions. They are reliable, fully protected, and stable. The power supplies' housing provides full protection against dust and water (IP67). High efficiency ensures low heat generation despite their small size. These units are covered by a 5-year warranty.

TECHNICAL CHARACTERISTICS

Group	Parameter	LP-3012	LP-3024	Conditions
Input	Rated input voltage	220 – 240 VAC		
	Input voltage range	100 – 240 VAC	180 – 240 VAC	
	Mains frequency range	47 – 63 Hz		
	AC current (max.)	0.4 A		At 100 VAC and full load
	Inrush current (max.)	80 A		
	No load power consumption	0.1 W		
	Input leakage current (max.)	0.25 mA		At 264 VAC
	Power factor correction	No		
Output	Rated output voltage	12 V	24 V	
	Rated output power	30 W		
	Rated output current	2.5 A	1.25 A	
	Average energy efficiency (min)	89%	90%	At 230 VAC
	Line regulation	±2%	±2%	
	Load regulation	±3%	±2%	
	Ripples and noise	150 mVp-p	120 mVp-p	At 100 VAC
	Minimal output current required	No		
	Hold up time (min.)	5 ms		At 100 VAC and full load
	DC voltage rise time (max.)	40 ms		At 100 VAC and full load
	Turn on delay time (max.)	3 s		At 100 VAC and full load
Environmental	Working temperature range	0 to +50°C		
	Working humidity range	25% to 75% RH		40°C
	Storage and transportation temperature range	-10°C to +80°C		
	Cooling method	Free air circulation		
Protection	Output short-circuit protection	Yes		
	Output overcurrent protection	Yes		
	Output overvoltage protection	Yes		
	Automatic recovery on fault remove	Yes		
Safety and EMC	Withstand isolation voltage (min.)	3 kVAC		Input to output, 5 mA, 1 min
	Isolation resistance (min.)	100 MΩ		500 VDC
	Isolation class	2		
	Safety compliance	EN62368-1		
	EMC compliance	EN55022 Class B		
	Marking	CE, UKCA, RoHS		

Notes: Unless otherwise stated, all parameters are specified at 230 VAC input voltage, 50 Hz, ambient temperature 25°C and relative humidity 70% for rated load output. The values of parameters related to the output voltage regulation is measured from low to high line or for load changes from 0 to 100%, respectively. The power supply is considered as an independent unit, but the final equipment still need to reconfirm that the whole system complies with the EMC directives. If the PSU is installed in the final device as a subassembly, the tests should be repeated to verify that the system has been met compliance. Detailed technical data are available on request.

