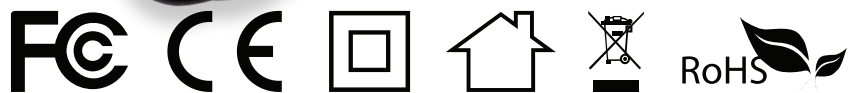


EZN-90-12

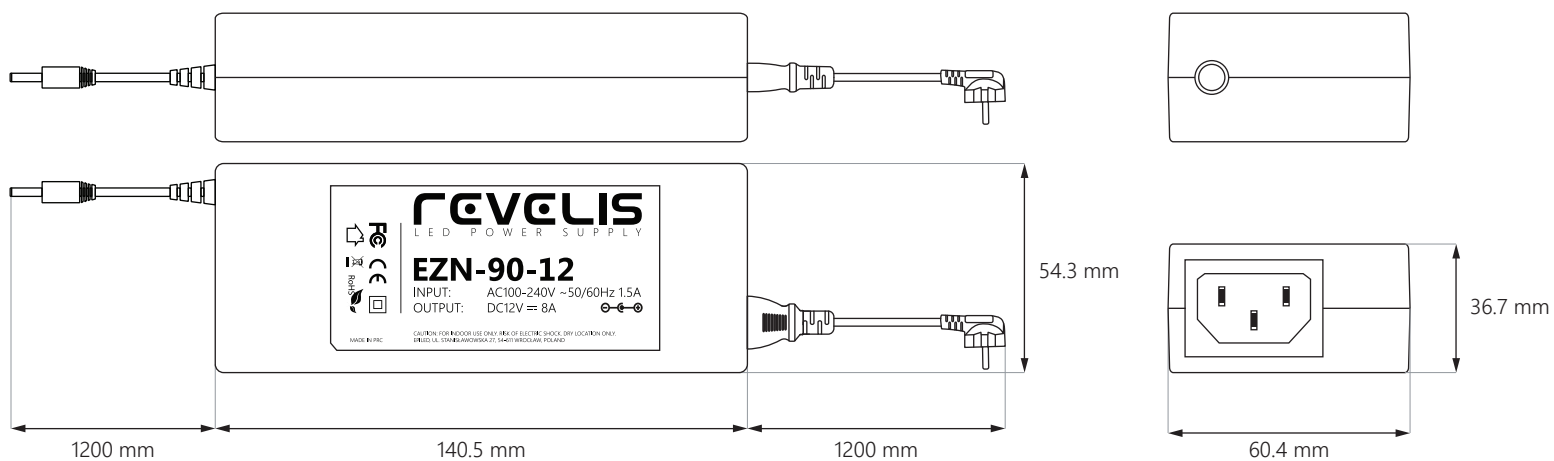
90W Desktop Power Supply



EZN series is widely used as the LED Driver and as a power supply for various devices which require 12V/24V constant voltage source.

Typically housed in plastic enclosures power supply comes as a wall mount unit and as desktop power supply unit with the fixed output connectors for direct hook-up to your device. The electronics design allows it for PWM dimming and ensures the stability and efficiency of power supply. The **overvoltage** protection, **short-circuit** protection, **overload** protection are on board.

Dimensions



EZN-90-12

90W Desktop Power Supply

Technical specification

OUTPUT

Turn on time	< 0.2 s
Output voltage	12V DC
Output voltage tolerance	±5%
Current range	0-8 A
Output voltage wave	< 100 mV (Vp-p)
Rated power	90 W

INPUT

Input voltage	100-240V AC
Input frequency	50Hz/60Hz
Input current	1.5 A
Input power	< 90 W
Efficiency	≥ 76%
Inrush current	< 20 A (peak, cold start)

ENVIRONMENT

Working temperature	0 ÷ +40°C
Working humidity	5%-90%, RH non-condensing, 72 hr
Storage temperature	-20°C ÷ +85°C
Lifetime	~30 000 hr

EMC STANDARDS & PROTECTION

Safety standards	EN 62368-1:2014+A11:2017`
Harmonic current	EN 61000-3-3:2013+A1:2019, EN IEC 61000-3-2:2019
EMI	EN 55032:2015
EMS	PN-EN55035:2017-09
Protection	short circuit / over current / over voltage / auto recovery

OTHER

Casing material	Plastic
Insulation type	Class 2
IP grade	IP20
AC cable	100% copper, H05VV-F, 300/500V, length 1.5m
AC plug	EU + Type E
DC cable	18AWG, 80°C, 300V, length 1.2m
DC plug	5.5x2.1
Dimensions (L x W x H)	140.5 x 60.4 x 36.7 mm
Weight	0.54 kg
Warranty	3 years

NOTE

1. All parameters not specially mentioned are measured at nominal voltage input, rated load and 25°C ambient temperature.
2. Output voltage wave is measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 4.7uf 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. The power supply is not suitable to use under direct sunlight exposure.

EZN-90-12

90W **Desktop** Power Supply

Safety instructions



**READ
BEFORE
USE**

- There are no user serviceable parts inside.
- Unauthorized access to power supply internal parts will void the warranty.
- To guarantee sufficient convection cooling, keep a distance of 50 mm above and lateral distance to nearby objects.
- Do not overload the power supply.
- Note that the power supply housing can become very hot.
- Connect the LED device to the power supply with the correct polarity.
- Derating guideline: please bear in mind, that all power supplies have a de-rating curve based on ambient temperature or low input voltage. We strongly suggest to keep at least 20% of margin when designing the load.