

RVL-100-24

100W **Super Slim** Power Supply



SELV

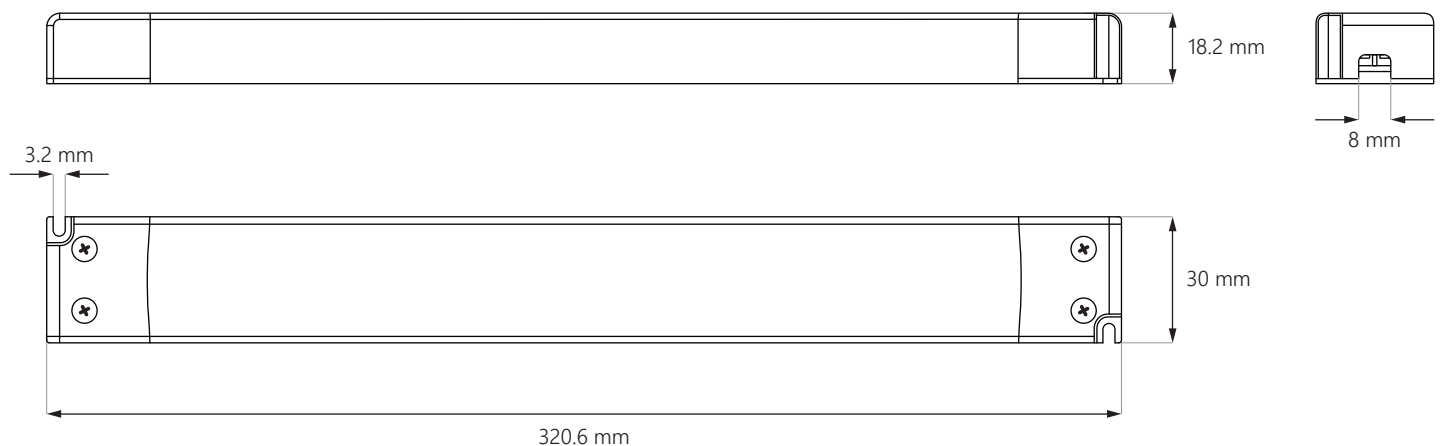


Extra slim housing profile makes the **Revelis power supply** easy to conceal within the frame of shallow light boxes, slim-line signage and integration into luminaires.

Revelis uses fan-less cooling to reduce noise and vibration and simplify the power supply structure. **RVL models** are equipped with the **screw terminals** for easy wire connection. The **mounting holes** are built-in for solid grip.

The protection circuit will shut down the power supply in case of **open circuit, short circuit, over temperature and over load**.

Dimensions



RVL-100-24

100W Super Slim Power Supply

Technical specification

OUTPUT

Turn on time	< 0.5 s
Output voltage	24 V
Output voltage tolerance	±5%
Current range	0-4.17 A
Output voltage wave	240 mV (Vp-p)
Rated power	100 W

INPUT

Input voltage	200-240V AC
Input frequency	50Hz/60Hz
Input current	< 1.0 A
Input power	< 120 W
Efficiency	≥ 90%
No load power consumption	< 0.5 W (average)
Inrush current	< 60 A (peak)
Power factor	≥ 0.9

ENVIRONMENT

Working temperature	-20 ÷ +45°C
Working humidity	45%-85%, RH non-condensing
Max. case temp.	+90°C
Lifetime	~30 000 hr

EMC STANDARDS & PROTECTION

Safety standards	EN61347-1, EN61347-2-13
Harmonic current	EN61000-3-3:2013, EN61000-3-2:2014
EMI	EN55032:2015
EMS	EN55024:2011/A1:2015
Protection	open circuit / short circuit / over load / over temperature / auto recovery

OTHER

Casing material	Plastic
Insulation type	Class 2
IP grade	IP20
Input terminal size	2x1 mm ² (maximum wire dimension)
Output terminal size	2x2 mm ² (maximum wire dimension)
Output cables length	max. 2 m
Dimensions (L x W x H)	320.6 x 30 x 18.2 mm
Weight	0.2 kg
Warranty	5 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 & 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. The power supply is not suitable to use under direct sunlight exposure.

RVL-100-24

100W **Super Slim** Power Supply

Safety instructions

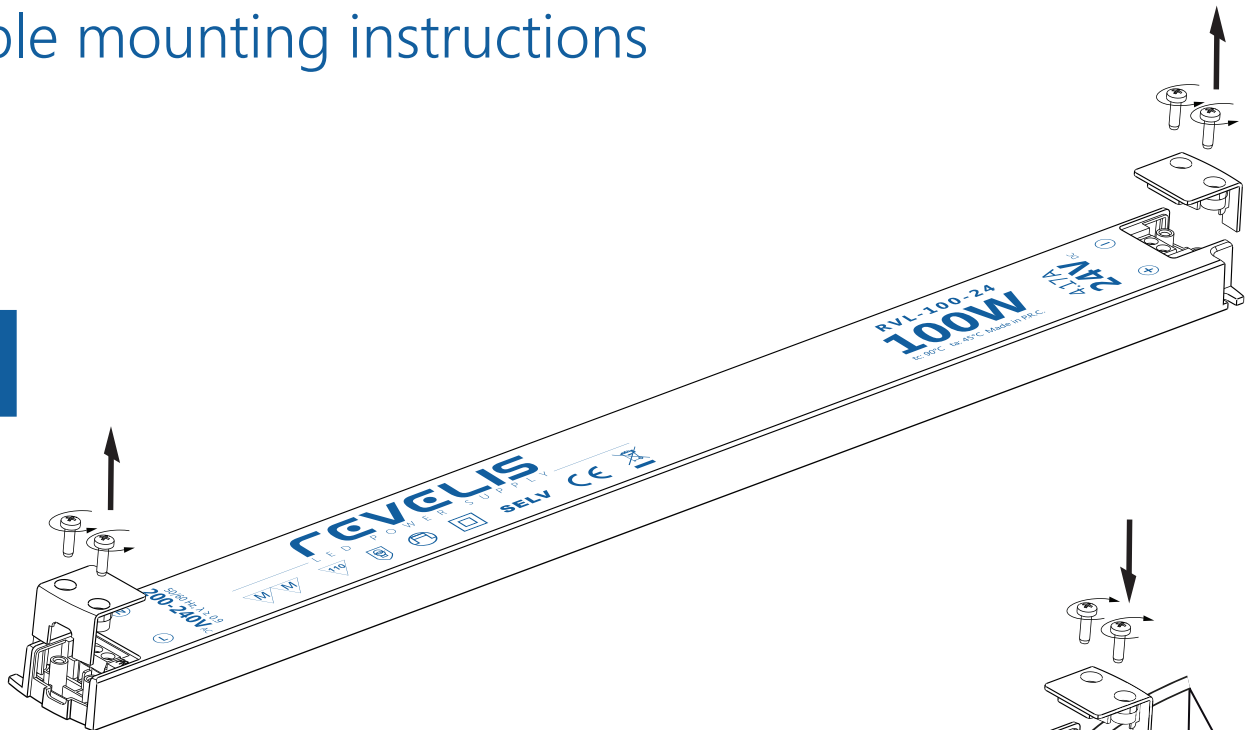


**READ
BEFORE
USE**

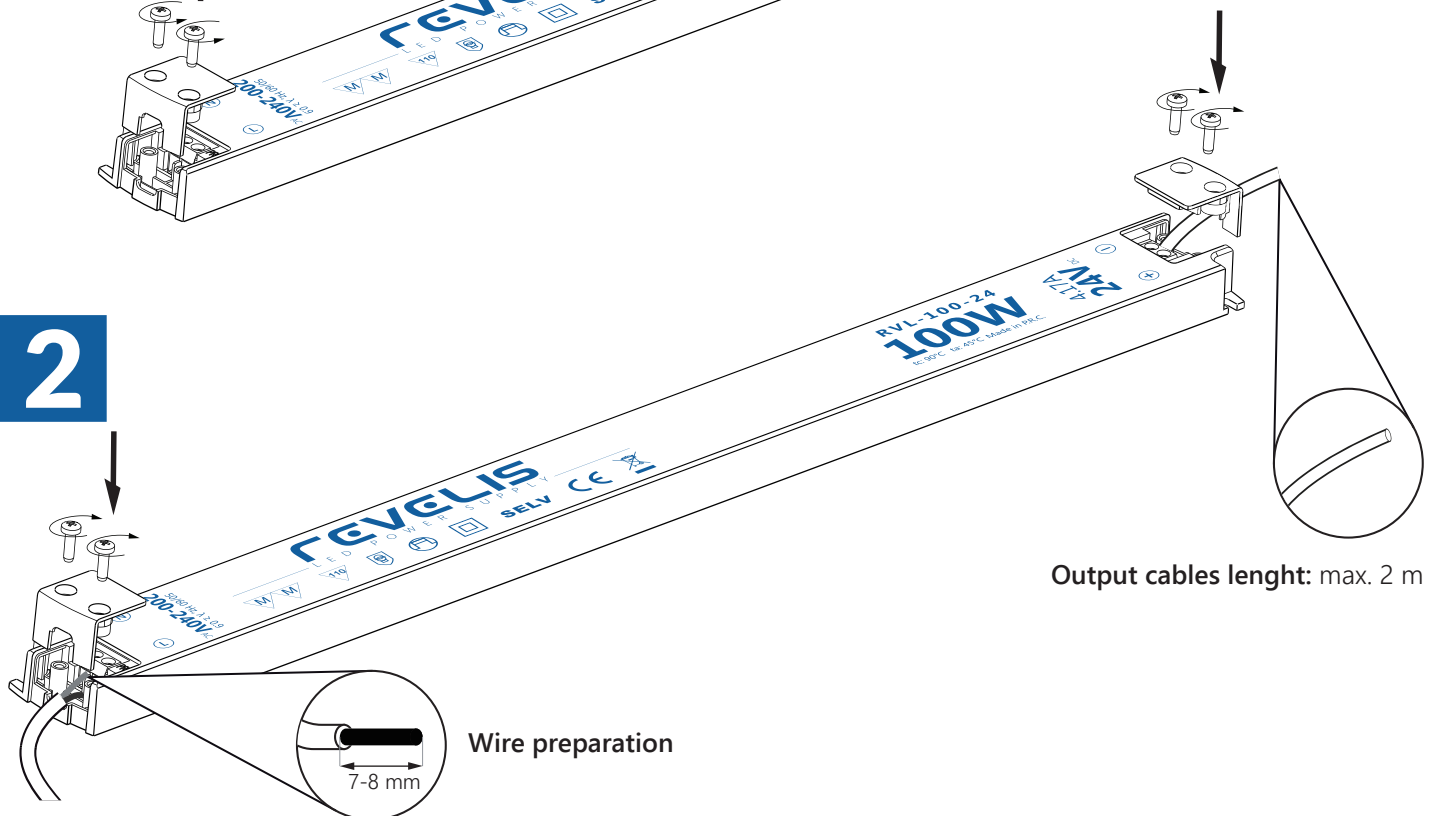
- There are no user serviceable parts inside.
- Unauthorized access to power supply internal parts will void the warranty.
- To guarantee sufficient convection cooling, keep a distance of 50 mm above and lateral distance to nearby objects.
- Do not overload the power supply.
- Note that the power supply 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.

Cable mounting instructions

1



2



Output cables length: max. 2 m