

RES-100-12

100W Super Slim Power Supply

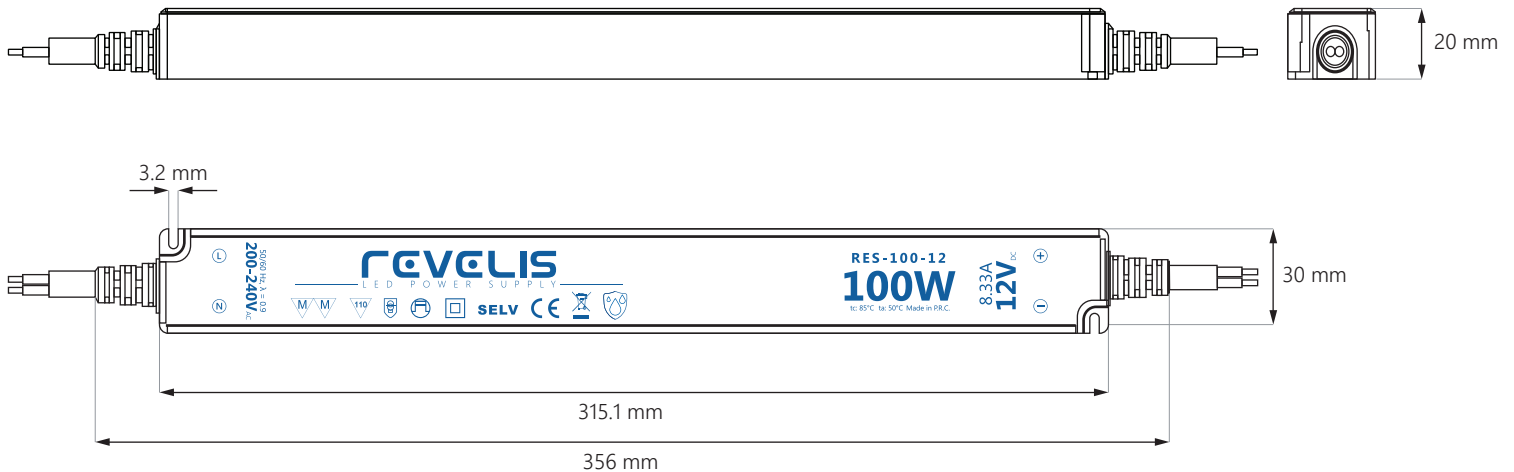


Extra slim housing profile makes the **Revelis power supply** easy to conceal within the frame of shallow light boxes, slim-line signage and integration into luminaires.

Revelis uses fan-less cooling to reduce noise and vibration and simplify the power supply structure. **RES models** have built-in AC and DC cables.

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

Dimensions



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Technical specification

OUTPUT

Turn on time	< 0.5 s
Output voltage	12 V
Output voltage tolerance	±5%
Current range	0-8.33 A
Output voltage wave	< 500 mV (Vp-p)
Rated power	100 W

INPUT

Input voltage	180-264 V AC
Input frequency	50Hz/60Hz
Input current	< 0.7 A
Input power	< 118 W
Efficiency	≥ 90%
No load power consumption	< 0.5 W (average)
Inrush current	< 75 A (peak)
Power factor	≥ 0.9

ENVIRONMENT

Working temperature	-20 ÷ +50°C
Working humidity	45%-85%, RH non-condensing
Max. case temp.	+80°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	IP66
Input wire dimension	H05RN-F 2 x 1.0 mm ²
Output wire dimension	SVT 2 x 0.82 mm ² (18AWG)
Output cables length	300 mm ± 20 mm
Dimensions (L x W x H)	356 x 30 x 20 mm
Weight	0.36 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 & 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.

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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.