

PRODUCT SPECIFICATION

400W 12V/24V LED SWITCHING POWER SUPPLY

Wide input voltage range • High PF • High efficiency



MODEL	OUTPUT	INPUT	PROTECTION
HR-HPI 400W	12VDC / 33.3A 24VDC / 16.7A	110-265VAC	IP20
PF	Efficiency	FANLESS	SCREW-CLAMP TERMINAL
≥0.98	≥94%	Natural convection cooling Potting process	Safer and more secure

01

PRODUCT OVERVIEW

The HR-HPI 400W is a compact constant-voltage LED switching power supply for indoor LED strips, linear lighting, light boxes, signage and display systems. It combines a 12V/24VDC output, screw-clamp terminal in a ventilated metal enclosure.

Engineering draft based on the supplied product label image. The product is configured as a 12V/ 24V constant-voltage LED power supply. Reference or TBC items must be verified against the approved sample and test report before commercial release.

02		TECHNICAL SPECIFICATIONS	
Item		Specification	
Product		Constant-voltage LED switching power supply Model HR-HPI400W	
AC input		110-265 VAC, 50/60 Hz L / N / Protective Earth screw-clamp terminal	
DC output		12/24 VDC, 33.3 A/16.7 A max, 400 W max V- / V+ screw-clamp terminal	
Electrical performance		Efficiency $\geq 94\%$, voltage tolerance $\pm 0.5V$, Other parameters are subject to laboratory data.	
Protection functions		Short circuit / overload / over-voltage / over-temperature: configuration TBC	
Operating environment		Ambient temperature -40°C to $+50^{\circ}\text{C}$ Indoor use IP20	
Cooling and enclosure		Fanless natural air convection Ventilated metal housing	
Mechanical data		Size 237*60*27mm N.W 0.58Kg: TBC from controlled drawing	
Label markings		CE, UKCA, ErP and RoHS-related markings shown on product label	
03		FUNCTIONAL HIGHLIGHTS	
Silent Operation No fan; natural convection lowers noise and maintenance.		Efficient Installation screw-clamp terminal project wiring.	
04		ENGINEERING CONFIRMATION BEFORE RELEASE	
Electrical Test Efficiency $\geq 94\%$, PF ≥ 0.98 @230VAC at full load, output accuracy $\pm 0.5\%$, inrush 2.5KV		Mechanical Control Dimensions, mounting holes, terminal torque, weight and packing	Compliance File Certificate numbers, declarations, market scope and label approval

05

OUTPUT SETTING REFERENCE

The following 12V/24V values are series reference ranges. Switch off AC power before changing the setting.



AC input: L / N / Protective Earth



DC output: V- V- / V+ V+

06

INSTALLATION & APPLICATION

INSTALLATION NOTES

- Qualified personnel only; disconnect AC power before work.
- Connect protective earth reliably before energizing.
- Keep ventilation slots clear and maintain free airflow.
- Use in dry indoor locations or inside a suitable enclosure.
- Verify LED load voltage, current and inrush before use.

TYPICAL APPLICATIONS

- LED strips and linear lighting
- Cabinet and shelf lighting
- Light boxes and illuminated signage
- Retail display and exhibition lighting
- Decorative indoor lighting
- Low-voltage 12/24V LED systems

07

ORDERING & DOCUMENT CONTROL

Company	Shenzhen Herlon Technology Co., Ltd.
Ordering information	Quantity, destination market, label language, packaging and certification requirements
Revision	Engineering Draft V1.0 August 2026

Specifications are subject to change. Formal supply shall be based on the approved sample, signed specification, test report and contract. Label markings do not replace valid certificates required by the destination market.