

PRODUCT SPECIFICATION

400W 12V/24V LED SWITCHING POWER SUPPLY

Soft-start output • 4-step DIP setting • Fanless metal enclosure



MODEL	OUTPUT	INPUT	PROTECTION
HR-EPI 400W	12VDC / 33.33A 24VDC / 16.67A	180-265VAC	IP20
SOFT START	4-STEP SETTING	FANLESS	SCREW-CLAMP TERMINAL
Approx. 5-8 s gradual light-up	Output voltage can be selected via DIP switches.	Natural convection cooling Potting process	Safer and more secure
01		PRODUCT OVERVIEW	

The HR-EPI 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, gradual soft-start operation, selectable output levels and screw-clamp terminal in a ventilated metal enclosure.

Engineering draft based on the product label and existing series information. 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-EPI400W	
AC input		180-265 VAC, 50/60 Hz L / N / Protective Earth screw-clamp terminal	
DC output		12/24 VDC, 33.33A/16.67A max, 400 W max V- / V+ screw-clamp terminal	
Output setting		Four selectable output levels by 3-position DIP switch	
Soft-start operation		Approx. 5-8 s from low output to selected output level, series reference	
Electrical performance		Efficiency 86%, 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 -30°C to +45°C Indoor use IP20	
Cooling and enclosure		Fanless natural air convection Ventilated metal housing	
Mechanical data		Size 240*50*29mm N.W 0.52Kg: TBC from controlled drawing	
Label markings		CE, UKCA, ErP and RoHS-related markings shown on product label	
03		FUNCTIONAL HIGHLIGHTS	
Gradual Soft Start Smooth light-up at power-on to reduce sudden visual impact.		Selectable Output Four preset output levels without an external controller.	
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 88%, PF ≥ 0.6 @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. Follow the DIP position diagram printed on the product label. Switch off AC power before changing the setting.

Level	Reference Voltage	Typical Use
25%	7.5-8.5V/15.5-16.5 V	Low-level ambient or decorative lighting
55%	8.5-9.5V/18.0-19.0 V	Reduced output for comfort or energy saving
75%	10.0-11.0V/20.0-21.0 V	Medium-high output
100%	11.5-12.1V/23.5-24.1 V	Nominal full-output operation



AC input: L / N / Protective Earth



DC output: V-/V- / V+/V+ and DIP selector

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.