PRODUCT SPECIFICATION

300W 12V/24V LED SWITCHING POWER SUPPLY

Wide input voltage range • High PF • High efficiency

MODEL	OUTPUT	INPUT	PROTECTION
HR-HPI 300W	12VDC / 25A 24VDC / 12.5A	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 300W 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-HPI300W
AC input	110-265 VAC, 50/60 Hz | L / N / Protective Earth screw-clamp terminal
DC output	12/24 VDC, 25 A/12.5 A max, 300 W max | V- / V+ screw-clamp terminal
Electrical performance	Efficiency ≥94%, voltage tolerance ±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°C | Indoor use | IP20
Cooling and enclosure	Fanless natural air convection | Ventilated metal housing
Mechanical data	Size 223*60*27mm N.W 0.53Kg: 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 ≥94%, PF≥0.98@230VAC at full load, output accuracy±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.