



POWER SUPPLIES SERIES HDN-100

High quality DIN rail industrial power supplies

FEATURES:

- compact design
- high power output
- premium class components
- fully protected
- low inrush
- output voltage trimmer
- perforated enclosure
- power on LED
- double terminal block connectors on output

APPLICATIONS:

- industrial automation
- monitoring and safety systems
- home and building automation
- lighting LED systems



HDN-100 is a series of high quality, efficient switched-mode industrial power supplies in a plastic housing for mounting on a DIN TS35 mm rail with a width of 4U. Its design is based on high-quality electronic components that allow for continuous, long-term operation. It is reliable, fully protected and stable. Provides high efficiency and excellent specification. The perforated enclosure provides good ventilation, and the trimmer allows to accurately adjust the voltage to compensate for the voltage drop across the wires. Double output terminals make it easy to connect load. 5 years warranty included.

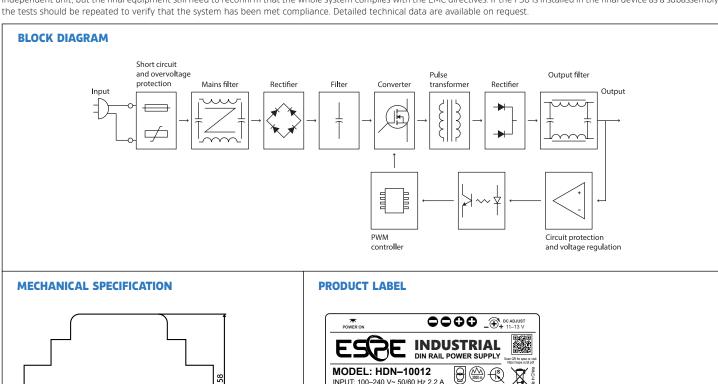
TECHNICAL SPECIFICATION

Group	Parameter	HDN-10012	HDN-10024	Conditions
Input	Rated input voltage	100-240) VAC	
	Input voltage range	90-264	90-264 VAC	
	Mains frequency range	47-63	47-63 Hz	
	AC current (max.)	2.2	2.2 A	
	Inrush current (max.)	45 A	50 A	At 265 VAC and full load
	No load power consumption	0.5 W	0.15 W	
	Input leakage current (max.)	0.25 t	0.25 mA	
	Power factor correction	No	No	
	Typical power factor	0.6	0.55	
	Rated output voltage	12 V	24 V	
	Trim range	11-13 V	23-25 V	
	Rated output power	85 W	92 W	
	Rated output current	7.1 A	3.83 A	
	Efficiency (typ.)	89%	89%	
	Line regulation	±2%	±2%	
Output	Load regulation	±3%	±3%	
	Ripple and noise	150 m\	150 mVp-p	
	Minimal output current	No	No	
	Hold up time (max.)	5 m	5 ms	
	DC voltage rise time (max.)	40 n	40 ms	
	Turn on delay time (max.)	0.5	0.5 s	
Environmental	Working temperature	0 to +4	0 to +40℃	
	Working humidity	25% to 7!	25% to 75% RH	
	Storage temperature	-10℃ to	-10℃ to +80℃	
	Cooling method	Free air cir	Free air circulation	
	Short circuit	Yes	Yes	
	Overcurrent	120-14	0%	Hiccup mode
. :	Output overvoltage protection at	16 V	36 V	
Protection	Input overvoltage protection	Yes	Yes	
	Thermal protection	Yes	Yes	
	Automatic recovery on fault remove	Yes	Yes	
Safety and EMC	Withstand isolation voltage	3 kVAC (input	3 kVAC (input to output)	
	Isolation resistance	100 M	100 ΜΩ	
	Isolation class	2	2	
	Safety compliance	EN6236	EN62368-1	
	EMC compliance	EN55032 Class B, EN61000	EN55032 Class B, EN61000-4-2, EN61000-4-4, -4-5	
	Marking	CE, UKCA	CE, UKCA, RoHS	

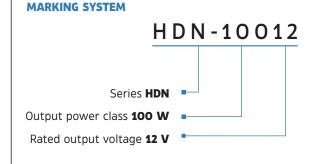
Mechanical and features	Enclosure	Grey ABS plastic		IP20
	LED indicator	Yes		
	Dimension	90 × 58 × 70 mm		L×W×H
	Weight	240 g	246 g	
	Output connector	Double pins terminal block		
	Input connector	Terminal block		
	Single package	100 × 80 × 72 mm		
	Packing	420 × 220 × 380 mm		50 items
	Manufacturing	China		
	Warranty	5 years		
	EAN	5904139604731	5904139605677	

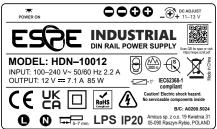
Notes:

Unless otherwise stated, all parameters are specified at 230 VAC input voltage, 50 Hz, ambient temperature 25°C and relative humidity 70% for rated load output. The values of parameters related to the output voltage regulation is measured from low to high line or for load changes from 0 to 100%, respectively. The power supply is considered as an independent unit, but the final equipment still need to reconfirm that the whole system complies with the EMC directives. If the PSU is installed in the final device as a subassembly,



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Legend to the label icons:

- Il safety class: no grounding is required, no dangerous voltage even in an emergency situation will appear on output
 - maximum allowable power supply mounting height
 - means safety isolating control gear with short circuit protection
 - switching power supply
 - the product must not be disposed of in normal waste containers
 - high voltage inside the power supply enclosure warning
- cable installation method 5–7 mm

- internal thermal fuse

- LPS - a Limited Power Source (LPS) as defined in IEC 62368-1 and IEC 60950, is a secondary circuit with an open circuit output voltage, UOC, not exceeding the SELV circuit limits of 42.4 VPEAK or 60 VDC
- IP20 - defined in EN 60529 levels of sealing effectiveness of electrical enclo-
- sures against intrusion from foreign bodies (tools, dirt) and moisture
- line connection (brown wire)
- neutral connection (blue wire) Ν
- ± - output plus (positive) wire, output minus (negative) wire

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