



POWER SUPPLIES SERIES HDN-60

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-60 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 3U. 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.

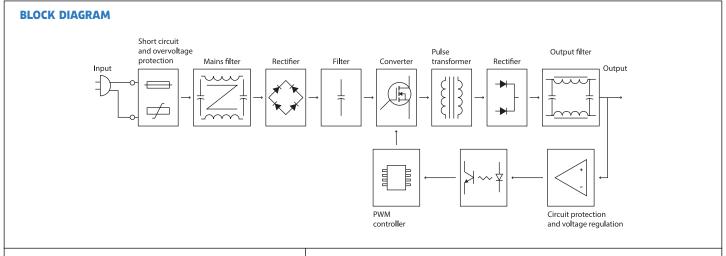
TECHNICAL SPECIFICATION

Group	Parameter	HDN-6012	HDN-6024	Conditions
Input	Rated input voltage	100-2	100-240 VAC	
	Input voltage range	90-26	90-264 VAC	
	Mains frequency range	47–5	47–53 Hz	
	AC current (max.)	1.4 A	1.5 A	At 100 VAC and full load
	Inrush current (max.)	60	60 A	
	No load power consumption	0.25 W	0.4 W	
	Input leakage current (max.)	Max. C	Max. 0.25 mA	
	Power factor correction	1	No	
	Typical power factor	0.6	0.6 0.55	
Output	Rated output voltage	12 V	24 V	
	Trim range	11.4-12.6 V	22.8-25.2 V	
	Rated output power	54 W	60 W	
	Rated output current	4.5 A	2.5 A	
	Efficiency at full load (typ.)	86%	88%	At 230 VAC
	Line regulation	±2	±2%	
	Load regulation	±3%	±2.5%	
	Ripple and noise	150 n	150 mVp-p	
	Minimal output current	N	No	
	Hold up time (max.)	5	5 ms	
	DC voltage rise time (max.)	40	40 ms	
	Turn on delay time (max.)	0.	0.5 s	
Environmental	Working temperature	0 to	0 to +40℃	
	Working humidity	25% to	25% to 75% RH	
	Storage temperature	-10℃ t	-10℃ to +80℃	
	Cooling method	Free air o	Free air circulation	
	Short circuit	Y	Yes	
Protection	Overcurrent	120-	120-140%	
	Output overvoltage	16 V	32 V	
	Input overvoltage protection	Y	Yes	
	Thermal protection	Y	Yes	
	Automatic recovery on fault remove	Y	Yes	
Safety and EMC	Withstand isolation voltage	3 kVAC (inpu	3 kVAC (input to output)	
	Isolation resistance	100	100 ΜΩ	
	Isolation class		2	
	Safety compliance	EN62	EN62368-1	
	EMC compliance	EN55032 Class B, EN6100	EN55032 Class B, EN61000-4-2, EN61000-4-4, -4-5	
	Marking	CE, UKC	CE, UKCA, RoHS	

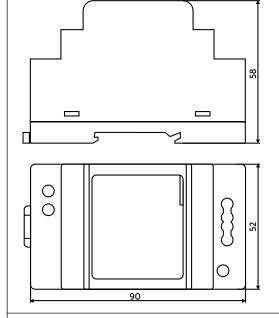
Mechanical and features	Enclosure	Grey ABS plastic		IP20
	LED indicator	Yes		
	Dimension	90 × 58 × 52 mm		L×W×H
	Weight	185 g		
	Output connector	Double pins terminal block		
	Input connector	Terminal block		
	Single package	100 × 60 × 68 mm		
	Packing	325 × 220 × 360 mm		50 items
	Manufacturing	China		
	Warranty	5 years		
	EAN	5904139605707	5904139604717	

Notes:

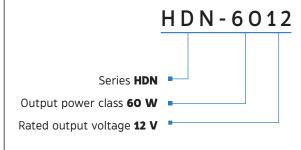
Unless otherwise stated, all parameters are specified at 230 VAC input voltage, 50 Hz, ambient temperature 25°C and relative humidity 70% for rated load output. The values of parameters related to the output voltage regulation is measured from low to high line or for load changes from 0 to 100%, respectively. 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, the tests should be repeated to verify that the system has been met compliance. Detailed technical data are available on request.



MECHANICAL SPECIFICATION



MARKING SYSTEM



PRODUCT LABEL



Legend to the label icons:

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- 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
- the product must not be disposed of in normal waste containers
- high voltage inside the power supply enclosure warning
- 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 enclosures against intrusion from foreign bodies (tools, dirt) and moisture
- L line connection (brown wire)
- N neutral connection (blue wire)

- switching power supply

- internal thermal fuse

± - output plus (positive) wire, output minus (negative) wire

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