

# ESPE-HDN6024

- high quality DIN rail 24 V power supply

## FEATURES:

- compact design
- high power output
- premium class design
- fully protected, low inrush
- output voltage trimmer, power on LED
- perforated enclosure

## APPLICATIONS:

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

**ESPE-HDN6024** is a high quality, efficient switched-mode power supply 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.



## TECHNICAL SPECIFICATION

Group	Parameter	Value	Conditions
Input	Rated input voltage	100-240 VAC	
	Input voltage range	90-264 VAC	
	Mains frequency range	47-53 Hz	
	AC current (max.)	15 A	At 100 VAC and full load
	Inrush current (max.)	60 A	
	No load power consumption	0.3 W	
	Input leakage current (max.)	Max. 0.25 mA	At 264 VAC
	Power factor correction	No	
	Typical power factor	0,55	
Output	Rated output voltage	24 V	
	Trim range	22.8-25.2 V	
	Rated output power	60 W	
	Rated output current	2.5 A	
	Efficiency	88%	At 230 VAC
	Efficiency at 10% load	83%	
	Line regulation	±2%	
	Load regulation	±2.5%	
	Ripple and noise	150 mVp-p	
	Minimal output current	No	
	Hold up time (max.)	Over 5 ms	
	DC voltage rise time (max.)	Up to 40 ms	
	Turn on delay time (max.)	0.5 s	
Environmental	Working temperature	0 to +40°C	
	Working humidity	25% to 75% RH	40°C
	Storage temperature	-10°C to +80°C	
	Cooling method	Free air circulation	
Protection	Short circuit	Yes	
	Overcurrent	120-140%	
	Output overvoltage	Yes, 32V	
	Automatic recovery on fault remove	Yes	
Safety and EMC	Withstand isolation voltage	3 kVAC (input to output)	5 mA, 1 min
	Isolation resistance	100 MΩ	500 VDC
	Isolation class	2	
	Safety compliance	EN62368	
	EMC compliance	EN55032 class B	
	Marking	RoHS, CE	
Mechanical and features	Enclosure	Black ABS plastic	
	Dimension	90 × 58 × 50 mm	
	Weight	178 g	L × W × H
	Output connector	Terminal block	
	Input connector	Terminal block	
	Single package	100 × 60 × 70 mm	
	Packing	325 × 220 × 360 mm	
	Manufacturing	China	50 items
	Warranty	3 years	

## 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.