

Order number

EPNSV 2404

Technical Information

Single Phase Power Supply

EPNSV 2404



Description	EPNSV 2404
	Power Supply for DIN-Rail 24 V / 4 A very slim with extended input range, for distribution installation / 45 mm – panel cut-out

Characteristics	
	High Cost-Effectiveness
	Extended input range
	Compact dimensions, low weight
	Extremely slim
	High efficiency
	Inrush current limiting
	Protections: Short circuit / Overload / Over voltage

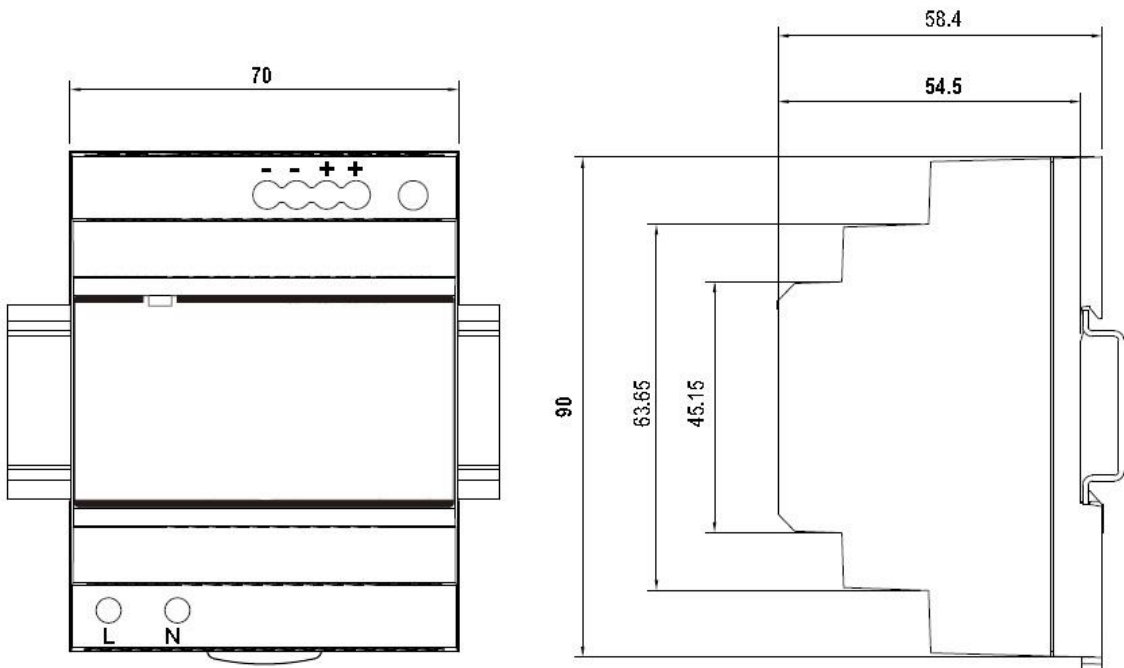
Output	
DC Voltage	24 V
Rated Current	4,2 A
Current Range	0 ~ 4,2 A
Rated Power	100,8 W
Terminal Connections	- = Output - (Ground) + = Output +I (+24 VDC)
Connection square	Max. 2,5mm ²
Fuse / Overload protection	Short Circuit protection is integrated Function – Limited to 105 – 150 % max. output constant current Rated Current at rated voltage, then steadily decreasing Automatic reversion at normal load
Interference Voltage Ripple & Noise (max.)	150 mVp-p
Voltage ADJ. Range	21,6 ~ 29 V
Voltage tolerance	+/- 1% max.
Line regulation	+/- 1 % max.
Load regulation	+/- 1% max.
Setup, Rise Time	500 ms, 60 ms / 230 VAC 500 ms, 60 ms / 115 VAC at full load
Hold up time	30 ms / 230 VAC 12 ms / 115 VAC at full load

Input	
Voltage Range	85 ~ 264 VAC, 120 ~ 370 VDC (see derating curve)
Terminal connections	N = neutral L = line
Terminals	Max. 2,5mm ²
Frequency Range	47 ~ 63 Hz
Efficiency (Typ.)	90 %
AC Current	3 A / 115 VAC 1,6 A / 230 VAC
Max. Inrush Current (Cold Start)	35 A / 115 VAC 70 A / 230 VAC

Protection	
Overload	105 ~ 150% constant current limitation
Overvoltage	30 ~ 36 V

Environmental Conditions	
Operating Temperature and Humidity	-30 ~ +70°C (see derating curve) 20 ~ 90% RH non-condensing
Storage Temperature and Humidity	-40 ~ +85°C, 10 ~ 95% RH non-condensing
Temperature Coefficient	+/- 0,03% / °C (0 ~ 50°C)
Vibration	10 ~ 500 Hz, 2G all axes, IEC 60068-2-6

Safety / EMC	
Safety Standards	UL62368-1, UL508, EN62368-1, EN61558-2-16, IEC 62358-1, EAC TP TC 004, BSMI CNS14336-1 approved
Dielectric strength / test voltage	Input-Output: 3KVAC
Isolation Resistance	Input-Output: > 100M Ohms / 500VDC
EMC	EN55032 / B
Harmonics	EN61000-3-2,-3
EMC Immunity	EN61000-4-2,3,4,5,6,8,11 ; EN55024 ; EN61000-6-2 ; EN61204-3
RoHS conformity	2011/65/EU – ROHS
PFOS conformity	2006/122/EC – PFOS

Dimensions and Weight	
 The drawing shows two views of the power supply unit. The front view on the left indicates a width of 70 mm. The top panel features two sets of terminals, each with a '-' and '+' sign. The bottom panel has two circular terminals labeled 'L' and 'N'. The side view on the right shows a total height of 90 mm. It also indicates a depth of 58.4 mm and a mounting flange width of 54.5 mm. Internal height dimensions are marked as 63.65 mm and 45.15 mm.	
Dimensions W x H x D in mm	70 x 90 x 54,5
Weight in g	270

