

Order number

**EPNSW 2404**

## Technical Information

### Single Phase Power Supply EPNSW 2404



Description	EPNSW 2404
	Power Supply for DIN-Rail 24 V / 4 A – with extendet range Input

Characteristics	
	High Cost-Effectiveness
	Extendet range Input
	Compact Dimension, low weight
	100% full load burn-in test
	High efficiency
	Inrush current limit
	Protections: Short circuit / Overload / Over voltage / Over temperature
	Built in DC OK aktive signal
	NEC class 2

Output	
DC Voltage	24 V
Rated Current	4 A
Current Range	0 ~ 4 A
Rated Power	96 W
Terminal connections	-V = Output - (Ground) +V = Output + 24 VDC DC OK relay output, contact 1 DC OK relay output, contact 2
Connection - square	max. 1,5 sqmm
Fuse / Overload protection	Against short circuit is integrated Limited to 105 – 150 % Output (constant current) Recovers automatically
Interference Voltage Ripple&Noise (max.)	150 mVp-p
Voltage ADJ. Range	24~ 30 V
Voltage Tolerance	+/- 1% max.
Line Regulation	+/- 1% max.
Load Regulation	+/- 1% max.
Setup, Rise Time	3000 ms, 50 ms / 230 VAC    3000 ms, 50 ms / 115 VAC at full load
Hold up time (typ.)	50 ms / 230 VAC                      20 ms / 115 VAC at full load
DC-Monitoring function	LED – DC OK (shines at Power ON) DC – OK – Relay contact (Contact rating max. 30V / 1A) Contact closed when output reaches normal level Contact open at output voltage below 90 % nominal value
Over voltage protection	24 ~ 30 V

Input	
Voltage Range	85 ~ 264 VAC, 120 ~ 370 VDC (see Derating curve)
Terminal connections	⊕ = Protected earth (PE) N = neutral L = line
Terminals	max. 1,5 sqmm
Internal Fuse	Inside - Fuse 2,5 AT (recover only in factory) Must do – only wire-protection
Frequency Range	47 ~ 63 Hz
Power Factor	PF $\geq$ 0,95 / 230 VAC PF $\geq$ 0,98 / 115 V at full load
Efficiency (Typ.)	86 %
AC Current (Typ.)	1,3 A / 115 VAC 0,8 A / 230 VAC
Inrush Current (Cold Start)	30 A / 115 VAC 60 A / 230 VAC
Leakage Current	<1 mA / 240 VAC

Safty/EMC	
Safety Standards	UL508, EN60950-1, NEC class 2
Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC
EMI Conduction & Radiation	EN55011, EN55022, EN61204-3 / B
Harmonic Current	EN61000-3-2,-3,
EMS Immunity	EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, EN61000-6-1, EN61204-3

Protection	
Overload protection	105 ~ 150% rated output power
Overvoltage protection	31,2 ~ 36 V
Temperature protection	90 °C $\pm$ 10 °C

Enviroment	
Working Temperature and Humidity	-10 ~ +60°C (see derating) 20 ~ 90% RH non-condensing
Storage Temperature, Humidity	-40 ~ +85°C, 10 ~ 95% RH non-condensing
Temperature Coefficient	+/- 0,03% / °C (0 ~ 50°C)
Vibration	10 ~ 500 Hz, 2G each axes, IEC 60068-2-6

Packing and Dimension	
Dimension W x H x D in mm	55 x 90 x 100
Weight g.	420

