

Order number

**EPNSW 2405**

## Technical Information

### Single Phase Power Supply EPNSW 2405



Description	EPNSW 2405
	Power Supply for DIN-Rail 24 V / 5 A – with extended Input range

Characteristics	
	High Cost-Effectiveness
	Wide input range
	150 % Overload capacity
	100% full load burn-in test
	High efficiency 91%
	Integrated Inrush Current limitation
	Protections: Short circuit / Overload / Over voltage / Over temperature
	Built in DC OK active signal

Output	
DC Voltage	24V
Rated Current	5 A
Current Range	0 ~ 5 A
Rated Power	120 W
Maximal current peak	7.5 A
Power peak	180 W (3 Sek.)
Interference Voltage Ripple&Noise (max.)	100 mVp-p
Voltage ADJ. Range	24 ~ 28 V
Voltage Tolerance	+/- 1% max.
Line Regulation	+/- 0.5% max.
Load Regulation	+/- 1% max.
Setup, Rise Time	1500 ms, 60 ms / 230 VAC    3000 ms, 60 ms / 115 VAC at full load
Hold up time (typ.)	20 ms / 230 VAC                      20 ms / 115 VAC at full load
DC-Monitoring function	DC OK Contact (30 VDC / 0,5A) Relay contact closed at DC OK
Monitoring	DC OK (LED green)

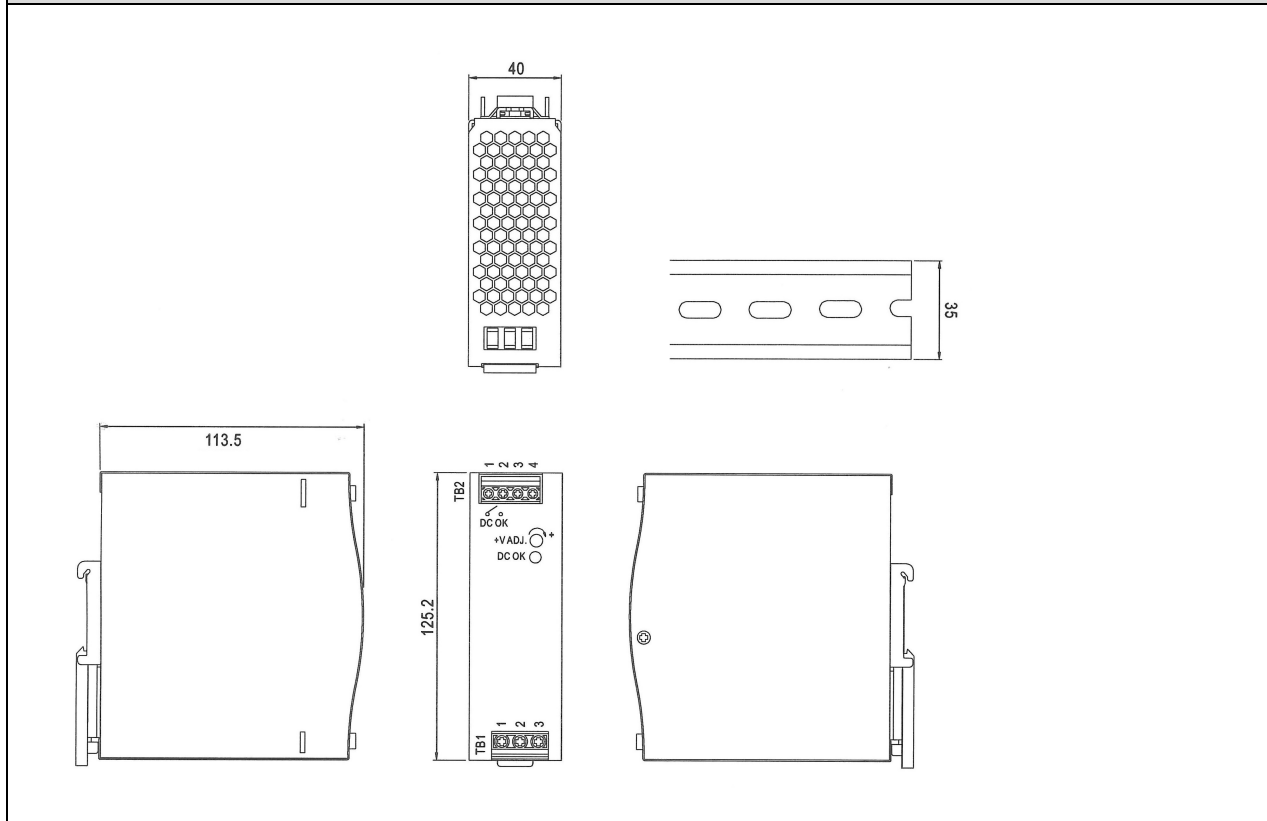
Input	
Voltage Range	88 ~ 264 VAC, 124 ~ 370 VDC (see Derating curve)
Frequency Range	47 ~ 63 Hz
Power factor	0.93/230 V AC    0.96/115 V AC at full load
Internal fuse	Inside-fuse T4A (recover only in factory) Only line protection required
Efficiency (Typ.)	91 %
AC Current	1.4 A / 115 VAC    0.7 A / 230 VAC
Inrush Current	35 A / 115 V AC    70 A / 230 V AC
Leakage Current	<1 mA / 240 VAC

Safety/EMC	
Safety Standards	UL508, EN62368-1, EAC TP TC 004, BSMI CNS14336-1
Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC Output-DC OK: 0.5KVAC
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC
EMI Conduction & Radiation	EN55032
Harmonic Current	EN61000-3-2,-3,
EMS Immunity	EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, EN61000-6-2, EN61204-3 B

Protection	
Overload	110 ~ 150% rated output power
Overvoltage	29 ~ 33 V Protection type: Shut down o/p voltage, re-power (off-on) to recover
Over Temperature	(95 °C ±5 °C) Detect on heat sink of power transistor Protection type: Shut down o/p voltage, recovers automatically after temperature goes down

Environment	
Working Temperature and Humidity	-25 ~ +70°C (see Derating) 20 ~ 95% 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 axe, IEC 60068-2-6

**Mechanical Data**



Dimensions W x H x D	40 x 125.2 x 113.5 mm
Weight	670 g
Torque clamps above	0.8 Nm
Torque clamps below	0.6 Nm

