

Order number

**DPNW 2420**

## Technical Information

### Three Phase Power Supply DPNW 2420



Description	<b>DPNW 2420</b>
	Power Supply for DIN-Rail 24 VDC / 20 A with extendet range Input

Characteristics	
	Extendet range Input
	Compact Dimension, low weight
	100% full load burn-in test
	High efficiency
	Integrated Inrush Current limitation
	Protections: Short circuit / Overload / Over voltage / Over temperature

Output	
DC Voltage	24 V
Rated Current	20 A
Current Range	0 ~ 20 A
Rated Power	480 W
Terminal connections	-V = Output - Ground +V = Output + 24 VDC
Connection - square	max. 6 sqmm
Protection	Against short circuit is integrated Mode – Rated output power is 105 – 150 % max. rated current and Output voltage decreases; Recovers after normal load
Interference Voltage Ripple & Noise (max.)	80 mVp-p
Voltage ADJ. Range	24 ~ 28 V - (Voltage adjustment v. picture)
Voltage Tolerance	+/- 1% max.
Line Regulation	+/- 0,5 % max.
Load Regulation	+/- 0,5 % max.
Setup, Rise Time	1200 ms, 40 ms / 400 VAC      800 ms, 40 ms / 500 VAC at full load
Hold Up Time	16 ms / 400 VAC                      35 ms / 500 VAC at full load

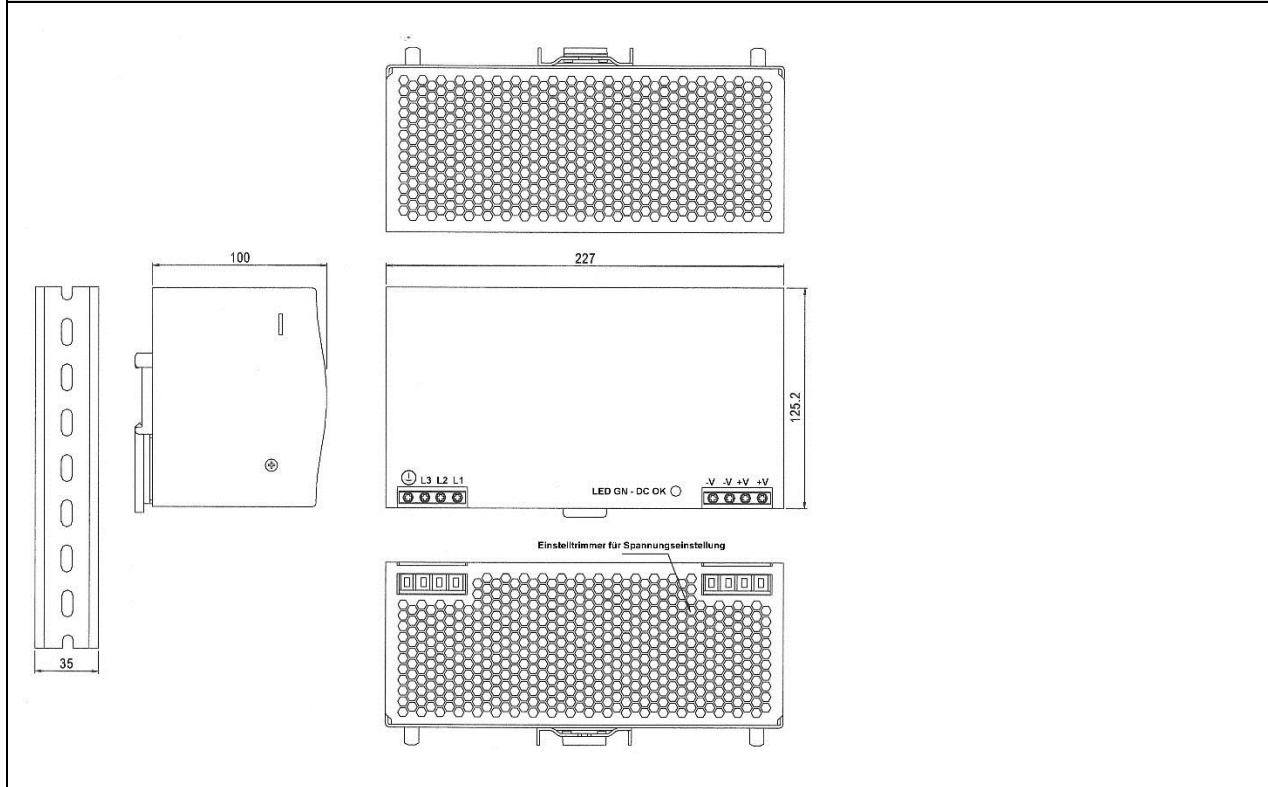
Input	
Voltage Range	Three-Phase 340 ~ 550 VAC, 480 ~ 780 VDC Dual phase under notice the derating possible. Connection to L1 und L3
Terminal connections	⊕ = Protected earth L3 = AC / L3; L2 = AC / L2; L1 = AC / L1
Terminals	max. 6 sqmm
Internal Fuse	Inside - Fuse 6,3 amps (recover only in factory) Must do – only wire-protection
Frequency Range	47 ~ 63 Hz
Efficiency (Typ.)	89 %
AC Current (Typ.)	1,7 A / 400 VAC    1,3 A / 500 VAC
Inrush Current (Cold Start)	50 A
Leakage Current	<3,5mA / 530 VAC

Safty/EMC	
Safety Standards	UL 508, UL 60950-1, EN 60950-1
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	EN 55011, EN55022, EN 61204-3 / B,
Harmonic Current	EN 61000-3-2,-3
EMS Immunity	EN 61000-4-2,3,4,5,6,8,11; ENV 50204, EN 61204-3, EN 61000-6-2 (EN 50082-2)

Protection	
Overload	105 ~ 150% rated output power
Overvoltage	30 ~ 36 V Protection type: Shut down o/p voltage, re-power (off-on) to recover
Over Temperature	100°C +/- 5°C (TSW1) Detect on heat sink of power transistor Protection type: Shut down o/p voltage, recovers automatically after temperature goes down

Enviroment	
Working Temperature and Humidity	-20 ~ +70°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

**Dimension and Packing**



Dimension W x H x D in mm	228 x 126 x 100
Weight g.	2200

