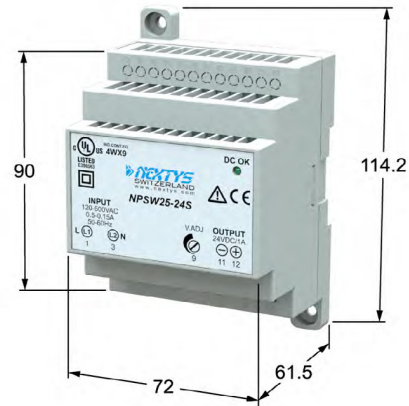


12V DIN Rail Power Supply 25 Watt, 1/2 Phase ASINPSW25-12S

- High efficiency and extremely compact size
- 1 or 2 phases AC (90...550Vac) or DC (150...725Vdc) input
- Plastic enclosure, circuit breaker shape
- Class II insulation (simplified wiring)
- Overload 130%
- Up to 70°C operating temperature with derating
- Ideal for applications with harsh mains conditions
- Compliant to renewable energy systems and high voltage DC BUS
- Conformal coated PC-Board



For reference only



TECHNICAL DATA

	NPSW25-12S	NPSW25-24S	NPSW25-48S
OUTPUT DATA			
Rated voltage	12Vdc	24Vdc	48Vdc
Adj. output voltage range	12...15Vdc	23...28Vdc	45...55Vdc
Continuous current	2...1.6A	1A	0.5A
Overload limit			
Vin = 120Vac	2.65A	1.45A	0.75A
Vin = 240Vac	2.9A	1.7A	0.9A
Vin = 400Vac	2.9A	1.7A	0.9A
Vin = 500Vac	2.9A	1.7A	0.9A
Load regulation	≤ 0.5%		
Ripple and noise	≤ 50mVpp		
Hold up time			
Vin = 240Vac	≥ 35ms		
Vin = 500Vac	≥ 180ms		
Protections	<ul style="list-style-type: none"> • Overload/short circuit: hiccup mode • Thermal protection • Output overvoltage 		
Status signals	DC OK - green LED		
Parallel connection	Possible for redundancy (with external ORing module)		
INPUT DATA			
Input AC rated voltage	Nominal: 1/2 phases, 120...500Vac (range 90...550Vac)		
Frequency	47...63Hz		
Input DC rated voltage	150...725Vdc		
Input AC rated current			
Vin = 120Vac	0.5A		
Vin = 500Vac	0.15A		
Input DC rated current			
Vin = 150Vdc	0.3A		
Vin = 725Vdc	< 0.1A		
Inrush peak current / I ² t	≤ 17A / 0.1A ² s		
Touch (leakage) current	≤ 0.2mA		
Internal protection fuse	None, external fuse must be provided		
Recommended external protection	MBC 2A C curve / Cartridge fuse Class CC 2AT 600Vac (UL) / SPD		
GENERAL DATA			
Efficiency	> 81.5%	> 84.5%	> 84%
Dissipated power	< 5.5W	< 4.5W	< 4.6W
Operating temperature	- 40°C...+ 70°C		
Derating	Depending on load current and input voltage (see the online datasheet)		
Lifetime expectancy / MTBF	179'477h (20.4 years) at 25°C ambient full load / (MIL-HDBK-217F) 600'000h at 25°C ambient full load		
Overvoltage category	III		
Pollution degree	2 (IEC60664-1)		
Input / output isolation	4.2kVdc		
Standards & Approvals	UL508 (certified), EN60950 (reference), CE marking		
EMC Standards	EN61000-6-2, EN61000-6-3		
Protection degree	IP20 (EN60529)		
Connection terminals	2.5mm ² , screw type header (24...12AWG)		
Case material	Plastic, Flame retardant UL94 V-0		