



Main Features

- High efficiency and compact size
- Plastic enclosure, circuit breaker shape
- Simplified wiring (no PE connection)
- Overload 170%
- High operating temperature with no derating



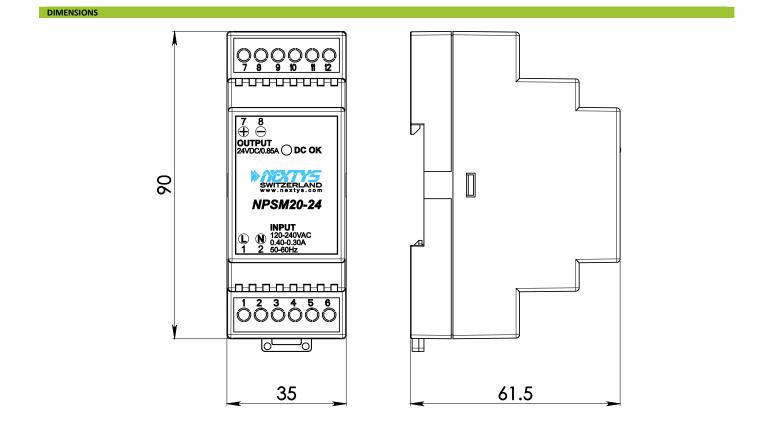
TECHNICAL DATA

TECHNICAL DATA Model type	NPSM2	00-12	NPSM20-24
OUTPUT DATA	NPSM2		NPSWIZU-24
Rated voltage	12V0	dc	24Vdc
Adj. output voltage range	12Vdc		24Vdc Fixed
Continuous current	1.65		0.85A
Overload limit	1.03		0.00/1
vin = 120Vac	2.60	Α	1.30A
vin = 240Vac	3.25		1.70A
Short circuit peak current	8.0		4.0A
Load regulation			1%
Ripple & Noise ¹	≤ 100mVpp		
Hold up time	≥ 5ms		
Protections	Overload/short circuit: Hiccup mode Thermal protection Output overvoltage		
Status Signals	DC OK - green LED		
Parallel connection	Possible for redundancy (with external ORing module)		
NPUT DATA			
nput AC rated voltage Frequency	Nominal: 120240Vac (UL certified) Range: 90264Vac 4763Hz		
nput DC rated voltage	110345Vdc		
	110		
nput AC rated current /in = 120Vac /in = 240Vac	0.40A 0.30A		
Input DC rated current			
Vin = 110Vdc	0.30A		
/in = 345Vdc	< 0.10A		
nrush peak current	≤ 50A		
•			
ouch (leakage) current	≤ 0.2mA		
nternal protection fuse	Fuse 1AT (not user replaceable)		
Recommended external protection	MCB 6A C curve It is strongly recommended to provide external surge arresters (SPD) according to local regulations.		
GENERAL DATA			
Efficiency	> 80%		
Dissipated power	< 6W		
Operating temperature ²	- 40°C+ 70°C UL certified up to 50°C		
Derating	- 0.5W/°C over 50°C		
Storage temperature	- 40°C+ 80°C		
Humidity	595% r.H. non condensing		
	58'629h (6.6 years) at 25°C ambient full load		
Life time expectation			t 25 C amplent full load
Overvoltage category	 EN50178 	III	
Pollution degree	 IEC60664-1 	2	
Protection Class	 CLASS 	II	
nput / output isolation		4.2	kVdc
	 UL508 	(certified E356563)	
Safety Standards	 EN60950 	(reference)	
	 EN50178 	(reference)	
	 EN55011 (CISPR11) 	Class A	
EMC Emission EMC Immunity	 EN55011 (CISPR11) EN55022 (CISPR22) 	Class A	
	 EN61000-4-2 	Level 3	
	 EN61000-4-2 EN61000-4-3 	Level 3	
	 EN61000-4-3 EN61000-4-4 	Level 3	
	 EN61000-4-4 EN61000-4-5 	Level 3	
	 EN61000-4-3 EN61000-4-11 	Level 2	
trataction degree	21101000 4 11		
Protection degree		IP20	
/ibration sinuosoidal	 IEC 60068-2-6 	(5-17.8Hz: ±1.6mm; 17.8-50	• • • • • • • • • • • • • • • • • • • •
hock	 IEC 60068-2-27 	(30g 6ms, 20g 11ms; 3 bump	os / direction, 18 bumps total)
Connection terminals	2.5mm ² , screw type header (2412AWG)		
Case material	ABS, Flame retardant UL94 V-0		
Veight	0.1kg		
Size (W x H x D)	35.0 x 90.0 x 61.5mm		
 Ripple and Noise are measured with 20MHz band Start-up type tested: - 40°C, possible at nominal 		parallel capacitor.	
Notes:			
Technical narameters are tynical measured in labo			

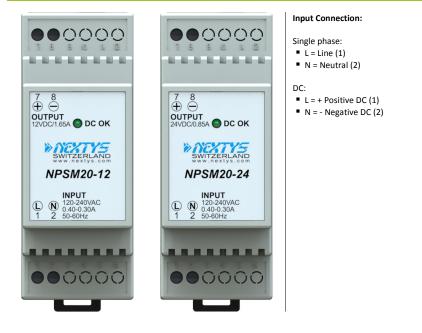
Technical parameters are typical, measured in laboratory environment at 25°C and 240Vac / 50Hz, at nominal values, after minimum 5 minutes of operation.
 Power rating, losses, efficiency, ripple, thermal behaviour and start-up may change outside of the nominal rated input range. Contact factory for details.
 Data may change without prior notice in order to improve the product.

NPSM20 Series 20W DIN Rail Switching Power Supply





CONNECTION



Output Connection:

- + = Positive DC (7)
- = Negative DC (8)