











■ Main Features

- High efficiency and compact size
- Only 54mm width aluminum enclosure
- 1, 2 or 3 phases input AC 187...550Vac
- Wide DC input range 250...725Vdc
- Overload 150%
- Excellent field reliability record
- Usable for broad range of industrial, telecom and renewable energy applications

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TECHNICAL DATA

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Model type	NPSW240-12	NPSW240-24	NPSW240-48P	NPSW240-72P
OUTPUT DATA				
Rated voltage	1215Vdc	24Vdc	48Vdc	72Vdc
Adj. output voltage range	1215Vdc	2328Vdc	4555Vdc	7285Vdc
Continuous current	1512A	10A	5.0A	3.5A
Overload limit (max. 6s)	20A	15A	7.5A	5.0A
Short circuit peak current	34A	38A	18A	13A
Load regulation	≤ 1	1%	≤	1.5%
Ripple & Noise ¹		≤ 10	00mVpp	
Hold up time				
Vin = 240Vac		≥	15ms	
Vin = 500Vac		≥	100ms	
Protections	 Overload, short circuit: Hiccup mode Thermal protection Output overvoltage 			
Output overvoltage protection	≥ 18Vdc ■ DC OK - green LED	≥ 33Vdc	≥ 68Vdc	≥ 100Vdc
Status Signals	OVERLOAD - red LED DC OK - dry contact (NO, 24Vdc / 1A)			
Parallel connection	 Possible for redundancy (with external ORing module) P (models) - include internal ORing circuit 			
INPUT DATA				
Input AC rated voltage Frequency	Nominal: 1/2/3 phases, 200500Vac (UL certified) Range: 187550Vac 4763Hz			
Input DC rated voltage	250725Vdc (300500Vdc UL certified)			
Input AC rated current Vin = 200Vac 1/2 Ph Vin = 500Vac 1/2 Ph	2.2A 1.1A			
Vin = 200Vac 3Ph Vin = 500Vac 3Ph	1.5A 0.8A			
Input DC rated current Vin = 250Vdc	0.9A 1.4A			
Vin = 725Vdc	0.4A		0.5A	
Inrush peak current	≤ 60A			
Touch (leakage) current	≤1.3mA			
Internal protection fuse	None, external fuse must be provided			
Recommended external protection	It is strongly rec		6A C or MCB 4A D curve surge arresters (SPD) according to	local regulations.
GENERAL DATA				
Efficiency	> 89%	> 93%	> 91%	> 92%
Dissipated power	< 22.5W	< 18W	< 23.5W	< 22W
Operating temperature ²	- 40°C+ 70°C UL certified up to 50°C			
Derating	- 4.2W/°C over 50°C			
Storage temperature	, ,			
	- 40°C+ 80°C			
Humidity	595% r.H. non condensing			
Life time expectation		81'648h (9.3 years)	at 25°C ambient full load	
Overvoltage category Pollution degree	■ EN50178 ■ IEC60664-1	III 2		
Protection Class	 CLASS 	I		
Input / output isolation			2kVdc	
	4.2kVdc			
Input / ground isolation	2.2kVdc			
Output / ground isolation		0.7	75kVdc	
Safety Standards	UL508EN60950EN50178	(certified E356563) (reference) (reference)		
EMC Emission	 EN55011 (CISPR11) EN55022 (CISPR22) 	Class A Class A		
EMC Immunity	 EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-11 	Level 3 Level 3 Level 3 Level 4 Level 2		
Protection degree	■ EN60529	IP20		
			OOHz: 2g 2hours / axis (V V 7)	
Vibration sinuosoidal	(5 1715112 2151111), 1715 35512 25 216215 7 4715 (7 17 17 1			
Shock	■ IEC 60068-2-27	(30g 6ms, 20g 11ms; 3 bum	nps / direction, 18 bumps total)	

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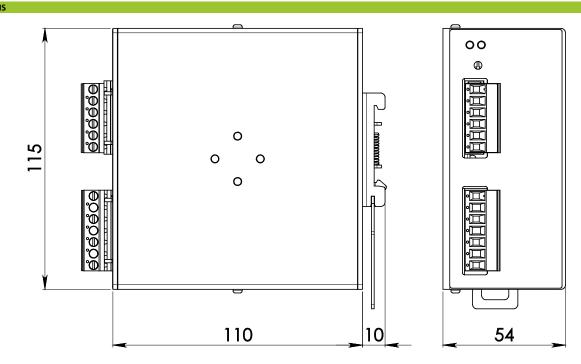
Connection terminals	2.5mm², screw type pluggable (2412AWG)		
Case material	Aluminum		
Weight	0.65kg		
Size (W x H x D)	54.0 x 115.0 x 110.0mm		

- 1) Ripple and Noise are measured with 20MHz bandwidth, probe terminated with a 0.1µF MKP parallel capacitor.
- 2) Start-up type tested: 40°C, possible at nominal voltage with load deration.

Notes:

- Technical parameters are typical, measured in laboratory environment at 25°C and 400Vac / 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.

DIMENSIONS



CONNECTION







Input Connection:

Single phase:

- L = Line
- N = Neutral
- I = Earth ground

2 phases:

- L1 = phase 1
- L2 = phase 2
- I = Earth ground

3 phases:

- L1 = phase 1
- L2 = phase 2
- L3 = phase 3
- I = Earth ground

DC:

- L1(L) = + Positive DC
- L2(N) = Negative DC
- L3 = do not connect
- I = Earth ground

Output Connection:

- += Positive DC
- - = Negative DC

Signalling:

DC OK: dry contact

- NO
- COM

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