











■ Main Features

- J High efficiency and extremely compact size
- J Only 40mm width aluminum enclosure
- J Active PFC
- J Overload 150%
-) Constant current or hiccup mode limitation, user settable
- J Wide range of output voltage
-) Easy parallelable for power increase
- J Up to 70°C operating temperature with no derating
- All models available as version (PH)
- Codes ended with (H): include enhanced transient overvoltage protection (> 6kV)

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TECHNICAL DATA

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Model type ¹	NPSM241-12 (P,H)	NPSM241-24 (P,H)	NPSM241-36 (P,H)	NPSM241-48P (H)	NPSM241-72P (H)
OUTPUT DATA					
Rated voltage	12Vdc	24Vdc	36Vdc	48Vdc	72Vdc
Adj. output voltage range	1215Vdc	2229Vdc	3240Vdc	4555Vdc	7085Vdc
Continuous current	15A	10A	7.0A	5.0A	3.3A
Overload limit in constant current mode	17A	11A	7.5A	7.0A	4.0A
Overload limit in hiccup mode (max. 5s)	20A	15A	10A	8.5A	5.5A
Load regulation	≤ 2%		≤ :	1%	J.
Ripple & Noise ²	≤ 160mVpp	≤ 260mVpp	≤ 300mVpp	≤ 400mVpp	≤ 550mVpp
Hold up time	≥ 25ms	≥ 20ms	≥ 15ms	≥ 20ms	≥ 15ms
Protections	Overload, short circuit: Constant current or Hiccup mode (user settable) Thermal protection Input undervoltage lockout Output overvoltage				
Output overvoltage protection	≥ 18Vdc	≥ 33Vdc	≥ 51Vdc	≥ 68Vdc	≥ 100Vdc
Status Signals	 DC OK - green LED OVERLOAD - red LED DC OK - dry contact (NO, 24Vdc / 1A) 				
Parallel connection ³	 Possible for power or redundancy (with external ORing module) P (models) - include internal ORing circuit 				
INPUT DATA					
Input AC rated voltage Frequency	Nominal: 120240Vac (UL certified) Range: 90264Vac 4763Hz				
Input DC rated voltage			110345Vdc		
Input AC rated current					
Vin = 120Vac	2.4	1A	3.0A	2.	4A
Vin = 240Vac	1.2		1.5A		2A
Input DC rated current			-		
Vin = 110Vdc	2.5A	2.6A	2.5A	2	6A
Vin = 110Vdc Vin = 345Vdc	2.5A 1.2A	2.6A 0.9A	2.5A 1.2A		бА 9A
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Power factor correction			Active / > 0.9		
Inrush peak current			≤ 50A		
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Touch (leakage) current		-	≤ 0.6mA	ala)	
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Touch (leakage) current Internal protection fuse Recommended external protection	It is stron	F	≤ 0.6mA	ve	gulations.
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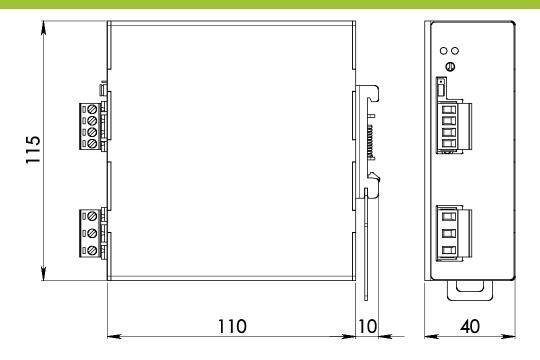
Connection terminals	2.5mm², screw type pluggable (2412AWG)	
Case material	Aluminum	
Weight	0.60kg	
Size (W x H x D)	40.0 x 115.0 x 110.0mm	

- 1) Codes ended with (H): include enhanced transient overvoltage protection (> 6kV)
- 2) Ripple and Noise are measured with 20MHz bandwidth, probe terminated with a 0.1µF MKP parallel capacitor.
- 3) Pay attention, set the current limitation mode jumper on C.C. mode when connecting more units in parallel. 4) Start-up type tested: 40°C, possible at nominal voltage with load deration.
- 5) Codes ended with (H) and NPSM241-36 (P) are not UL508 certified.

Notes:

- · 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.

DIMENSIONS



CONNECTION







Input Connection:

Single phase:

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

- L = + Positive DC
- N = Negative DC
- I = Earth ground

Output Connection:

- + = Positive DC
- - = Negative DC

Signalling:

DC OK: dry contact

- NO
- COM

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