NPSM85 Series

85W DIN Rail Switching Power Supply













■ Main Features

- High efficiency and compact size
- Only 40mm width aluminum enclosure
- Overload 150%
- Up to 70°C operating temperature with no derating

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85W DIN Rail Switching Power Supply



TECHNICAL DATA

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Model type	NPSM85-5	NPSM85-24	NPSM85-24P	
OUTPUT DATA	5Vdc	20/4-		
Rated voltage	4.755.25Vdc	24Vdc 2328Vdc		
Adj. output voltage range Continuous current	4.755.25Vuc 8.5A	3.5A		
Overload limit	11A	5.5A		
Short circuit peak current	20A	30A	20A	
Load regulation	≤ 3.5%	≤ 1%	≤ 2.5%	
Ripple & Noise ¹	≤ 3.5% ≤ 130mVpp	≤ 17% ≤ 50mVpp	≥ 2.5%	
	2 130mvpp	2 30111Vpp		
Hold up time Vin = 120Vac		> 15 ms		
viii = 120vac vin = 240Vac		≥ 15ms ≥ 50ms		
/III - 240VaC	- 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
S	Overload, short circuit: Hiccu	up mode		
Protections	Thermal protection			
	Output overvoltage			
Output overvoltage protection	≥ 6.8Vdc	≥ 33Vdc		
Status Signals	 DC OK - green LED 			
rtatus Signais	 DC OK - dry contact (NO, 24) 	Vdc / 1A)		
Daniella I anno antico	 Possible for redundancy (with external ORing module) 			
Parallel connection	P (models) - include internal ORing circuit			
NPUT DATA				
		Nominal: 120240Vac (UL certified)		
nput AC rated voltage	Range: 90264Vac			
requency	4763Hz			
nput DC rated voltage		110345Vdc		
-	+	1105-5740		
nput AC rated current	1.04	1.54		
Vin = 120Vac Vin = 240Vac	1.0A 0.6A	1.5A 0.9A		
	U.UA	U.JA		
nput DC rated current	0.74	4.04		
/in = 110Vdc	0.7A	1.0A		
/in = 345Vdc	0.3A	0.4A		
nrush peak current	≤ 40A			
Touch (leakage) current	≤ 0.45mA			
nternal protection fuse	Fuse 2AT (not user replaceable)			
·	Fuse 6AT or MCB 6A C curve			
Recommended external protection	It is strongly recommended to provide external surge arresters (SPD) according to local regulations.			
GENERAL DATA	9,			
Efficiency	> 75%	> 88%	> 87%	
Dissipated power	< 14.5W	< 11.5W	< 12.5W	
		- 40°C+ 70°C		
Operating temperature ²		UL certified up to 60°C		
Derating				
		No derating up to 70°C		
Storage temperature		- 40°C+ 80°C		
Storage temperature		- 40°C+ 80°C		
Storage temperature Humidity Life time expectation	■ EN50178 III	- 40°C+ 80°C 595% r.H. non condensing 138'640h (15.8 years) at 25°C ambient full load		
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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.

- Technical parameters are typical, measured in laboratory environment at 25°C and 240Vac / 50Hz, at nominal values, after minimum 5 minutes of operation.

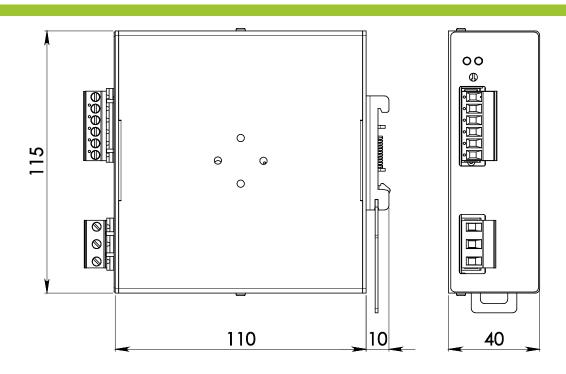
 Power rating, losses, efficiency, ripple, thermal behaviour and start-up may change outside of the nominal rated input range. Contact factory for details.
- Data may change without prior notice in order to improve the product.

NPSM85 Series

85W DIN Rail Switching Power Supply



DIMENSIONS



CONNECTION







Input Connection:

Single phase:

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

DC:

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

Output Connection:

- + = Positive DC
- -= Negative DC

Signalling: **DC OK:** dry contact NO

- COM