





Main Features

- *J* High efficiency and extremely compact size
-) Only 35mm width aluminum enclosure
- / Active PFC
-) Overload 150%
- / Constant current or hiccup mode limitation, user settable
- *)* Wide range of output voltage
- J Easy parallelable for power increase
-) Up to 60°C operating temperature with no derating

NPSM121



AC/DC Din Rail Mount Power Supplies 120W

TECHNICAL DATA Model type	NPSM121-24	NPSM121-24P	NPSM121-48	NPSM121-48P	
OUTPUT DATA					
Rated voltage		24Vdc		/dc	
Adj. output voltage range	11.529Vdc			2356Vdc	
Continuous current Overload limit in constant current mode	5.0A 2.5A 7.5A 2.5A				
Overload limit in hiccup mode (max. 5s)	7.5A 3.75A 3.75A 3.75A				
Load regulation	≤1%	≤ 3%	≤ 0.5%	≤ 1.5%	
Ripple & Noise ¹			ImVpp		
Hold up time					
Vin = 120Vac			20ms		
Vin = 240Vac			30ms		
	Overload, short circuit: Constant current or Hiccup mode (user settable)				
Protections	Thermal protection Input undervoltage lockout				
	 Output overvoltage 	NUUL			
Output overvoltage protection	≥ 33	Vdc	≥ 68	Vdc	
	DC OK - green LED	vuc	200	vac	
Status Signals	 OVERLOAD - red LED 				
5	 DC OK - dry contact (NO, 24Vdc / 1A) 				
D	 Possible for power or 	redundancy (with external ORing	module)		
Parallel connection ²	 P (models) - include in 				
INPUT DATA					
Input AC rated voltage	Nominal: 120240Vac (UL certified)				
Frequency	Range: 90264Vac				
	4763Hz				
Input DC rated voltage	-	110	345Vdc		
Input AC rated current			44		
Vin = 120Vac Vin = 240Vac			.4A .7A		
Input DC rated current	_	0			
Vin = 110Vdc		1	.4A		
Vin = 345Vdc	0.5A				
Power factor correction	Active / > 0.9				
Inrush peak current		5	45A		
Touch (leakage) current	_		.5mA		
Internal protection fuse	Fuse 3.15AT (not user replaceable)				
			MCB 4A C curve		
Recommended external protection	It is strongly rec		urge arresters (SPD) according to lo	cal regulations.	
GENERAL DATA					
Efficiency	> 90%	> 89%	> 90%	> 89%	
Dissipated power	< 13.5W	< 15W	< 13.5W	< 15W	
Operating temperature ³			+ 70°C		
			ed up to 60°C		
Derating	_		C over 60°C		
Storage temperature	_		+ 80°C		
Humidity			non condensing		
Life time expectation		74'640h (8.5 years) at	t 25°C ambient full load		
Overvoltage category	 EN50178 EN5000000000000000000000000000000000000				
Pollution degree	 IEC60664-1 	2			
Protection Class	CLASS				
Input / output isolation		4.2	kVdc		
Input / ground isolation	2.2kVdc				
Output / ground isolation		0.75	5kVdc		
Safety Standards	 UL508 	(certified E356563)			
	 EN60950 EN50170 	(reference)			
	 EN50178 	(reference)			
EMC Emission	 EN55011 (CISPR11) EN55022 (CISPR22) 	Class B Class B			
	 EN55022 (CISPR22) EN61000-3-2 	Class B Class A			
	EN61000-3-2 EN61000-4-2	Level 3			
	 EN61000-4-2 EN61000-4-3 	Level 3			
EMC Immunity	 EN61000-4-4 	Level 4			
	 EN61000-4-5 	Level 4			
	 EN61000-4-11 	Level 2			
Protection degree	 EN60529 	IP20			
Vibration cinuosoidal	IEC 60068-2-6	(5-17.8Hz: ±1.6mm; 17.8-50	OHz: 2g 2hours / axis (X,Y,Z)		
Vibration sinuosoidal	120 00000 2 0				

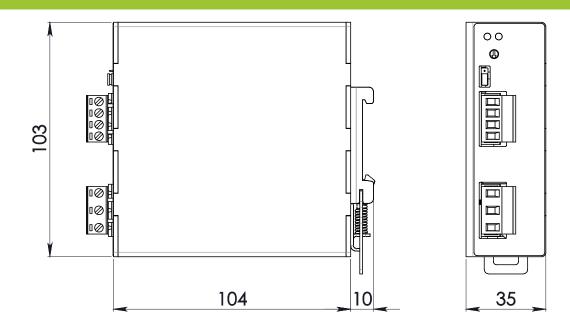
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Connection termi	nals	2 5mm ² screw type r

Connection terminals	2.5mm ² , screw type pluggable (2412AWG)		
Case material	Aluminum		
Weight	0.45kg		
Size (W x H x D)	35.0 x 103.0 x 104.0mm		
 Ripple and Noise are measured with 20MHz bandwidth, probe terminated with a 0.1μF MKP parallel capacitor. Pay attention, set the current limitation mode jumper on C.C. mode when connecting more units in parallel. Start-up type tested: - 35°C, possible at nominal voltage with load deration. 			
	poratory environment at 25°C and 240Vac / 50Hz, at nominal values, after minimum 5 minutes of operation. ehaviour and start-up may change outside of the nominal rated input range. Contact factory for details.		

DIMENSIONS



CONNECTION

