NPST501 Series

AC/DC Power Supplies 3 phase input 480W







Main Features

- High efficiency and compact size
- Overload 150%
- Constant current or hiccup mode limitation, user settable
- Easy parallelable for power increase
- Natural convection cooling
- 72V output model as standard

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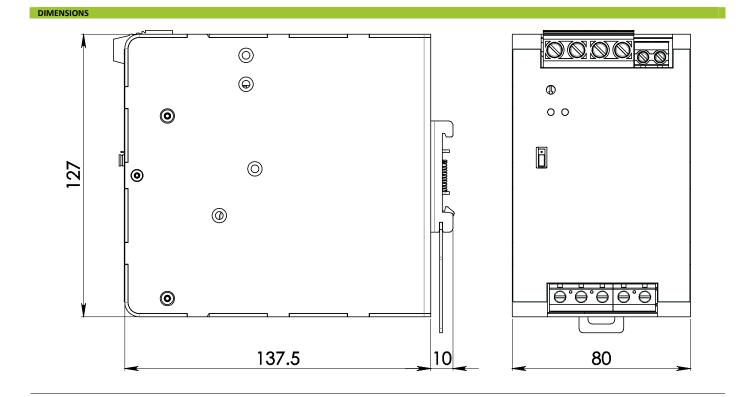
Model type	NPST501-12	NPST501-24	NPST501-48	NPST501-72
DUTPUT DATA				
Rated voltage	12Vdc	24Vdc	48Vdc	72Vdc
Adj. output voltage range	1215Vdc	2328Vdc	4555Vdc	7285Vdc
Continuous current	40A	20A	10A	6.7A
Overload limit in constant current mode	44A	22A	11A	7.5A
Overload limit in hiccup mode (max. 5s)	60A	30A	15A	10A
.oad regulation	≤ 2.5%	≤ 1%	≤ 0.59	%
Ripple & Noise ¹	≤ 150mVpp ≤ 100mVpp			
lold up time	≥ 20ms			
Protections	 Overload, short circuit: Constant current or Hiccup mode (user settable) Thermal protection Output overvoltage 			
		> 22)/da		> 100V/da
Dutput overvoltage protection	≥ 18Vdc DC OK - green LED OVERLOAD - red LED DC OK - dry contact (NO	≥ 33Vdc	≥ 68Vdc	≥ 100Vdc
Parallel connection ²	Possible for power or redundancy (with external ORing module)			
NPUT DATA				
		Nominal: 3 phases 40	0500Vac (UL certified)	
nput AC rated voltage ³	Nominal: 3 phases, 400500Vac (UL certified) Range: 340550Vac			
requency	4763Hz			
nput DC rated voltage	520725Vdc			
	-	520	. 23 VUL	
nput AC rated current		4	20	
/in = 400Vac /in = 500Vac	1.3A 1.1A			
	_	1.	.17	
nput DC rated current			24	
/in = 520Vdc	1.2A 0.9A			
/in = 725Vdc	0.9A			
nrush peak current	≤ 50A			
Touch (leakage) current	≤ 0.15mA			
Internal protection fuse	None, external fuse must be provided			
•	Fuse 3x 10AT or 3x MCB 10A C curve			
Recommended external protection	It is strongly reco		urge arresters (SPD) according to loca	al regulations.
GENERAL DATA				-
fficiency	> 87.5%	> 9:	3.5%	> 94%
Dissipated power	< 69W		34W	< 31W
· ·			+ 70°C	
Operating temperature ⁴			d up to 50°C	
Derating	- 4.5W/°C over 50°C			
-				
Storage temperature	- 40°C+ 80°C			
lumidity	595% r.H. non condensing			
Life time expectation		63'200h (7.2 years) at	25°C ambient full load	
Overvoltage category	 EN50178 	III		
Pollution degree	 IEC60664-1 	2		
Protection Class	CLASS	I		
nput / output isolation		1.0	kVdc	
	4.2kVdc			
nput / ground isolation	2.2kVdc			
Dutput / ground isolation			5kVdc	
Safety Standards	 UL508 	(certified E356563)		
	 EN60950 	(reference)		
	 EN50178 	(reference)		
EMC Emission	 EN55011 (CISPR11) 	Class A		
	 EN55022 (CISPR22) 	Class A		
	 EN61000-4-2 	Level 3		
	 EN61000-4-3 	Level 3		
EMC Immunity	 EN61000-4-4 	Level 3		
	EN61000-4-5	Level 4		
	 EN61000-4-11 	Level 2		
Protection degree	 EN60529 	IP20		
/ibration sinuosoidal	 IEC 60068-2-6 	(5-17.8Hz: ±1.6mm; 17.8-500)Hz: 2g 2hours / axis (X,Y,Z)	
Shock	 IEC 60068-2-27 	(30g 6ms, 20g 11ms; 3 bump	s / direction, 18 bumps total)	
Connection terminals	1.56mm ² , screw type header (1610AWG) 616mm ² , screw type header (106AWG) for output on 12V model			
Case material				
Case material	Aluminum			
Weight	1.3kg			
Size (W x H x D)		80.0 x 127.0	0 x 137.5mm	
 Ripple and Noise are measured with 20MHz band Pay attention, set the current limitation mode jun 				

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.

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CONNECTION Input Connection: **Output Connection:** 3 phases: + = Positive DC + + ------ОUTPUT Dс ок 48VDC/10А 24V/1А + + ------ОUTPUT DC ок 72VDC/6.7A 24V/1A 6 12...15V 6 72...85V L1 = phase 1 - = Negative DC L2 = phase 2 DC OK DC OK DC OK ⚠ ⚠ L3 = phase 3 ⚠ Signalling: I = Earth ground DC OK: dry contact SWITZERLAND SWITZERLAND HICCUP C.C. SWITZERLAND HICCUP HICCUP C.C. NO DC: COM L1 = + Positive DC NPST501-48 NPST501-72 L2 = - Negative DC NPST501-12 L3 = do not connect I = Earth ground INPUT INPUT INPUT L1 L2 L3 🖶 🕀 L1 L2 L3 🖶 🖶 L1 L2 L3 🕀 🖶

