



Main Features:

- Single, 2 or 3 phases input AC 187...550Vac
- Wide DC input range 250...725Vdc
- Active PFC for optimal efficiency
- High efficiency 91% and compact size
- Usable for broad range of industrial, telecom and renewable energy applications







NPSW480

AC/DC Power Supplies 480W wide input range



FECHNICAL DATA Model type	NPSW480-24	NPSW480-48	NPSW480-72
DUTPUT DATA Rated voltage	24Vdc	48Vdc	72Vdc
di. output voltage range	24Vdc 2328Vdc	48Vdc 4555Vdc	7285Vdc
Continuous current	20A	10A	6A
Overload limit	28A	14A	9A
hort circuit peak current	50A	25A	12A
oad regulation	1%	1%	1%
ipple & Noise	50mV		100mVpp
fold up time		> 50ms	
Status Signals	DC OK by green LED Overload by red LED Dry contact (1A/30V)		
Dutput protections	 Hiccup at the overload limit with an Over temperature Overvoltage 	uto reset	
Dutput overvoltage protection	> 33Vdc	> 68Vdc	> 100Vdc
Parallel connection		Possible with external ORing diode	
NPUT DATA			
nput AC rated voltage Frequency	Nominal: 1-2-3 Phases, 200500Vac (UL certified) Range: 187550Vac 4763Hz		
nput DC rated voltage		250725Vdc	
I-2-Phase = 200Vac I-2-Phase = 500Vac I-2-Phase = 500Vac 3-Phase = 200Vac 3-Phase = 500Vac	2.9A 1.3A 1.8A 0.8A		
nput DC current Jin = 250Vdc Jin = 725Vdc	2.1A 0.8A		
nrush peak current	<00A		
Continuous overvoltage protection	No damage up to 550Vac/725Vdc		
nternal protection fuse	None, external fuse must be provided		
•	Fuse AT 6.3A or MCB 6A C curve or 4A D curve		
xternal protection on AC line	It is strongly recommended to provide external surge arresters (SPD) according to local regulations.		
ENERAL DATA			
fficiency	> 92%	> 92%	> 91%
issipated power	< 42W	< 42W	< 42.5W
perating temperature	- 40°C+ 70°C / overtemperature protection UL certified up to 45°C Start-up type tested: - 40°C1		
Derating		- 10W/°C over 45°C	
Storage temperature	- 40°C+ 80°C		
lumidity	595% r.H. non condensing		
ife time expectation	65496h (7.4 years) at 25°C ambient full load		
Dvervoltage category			
Pollution degree	2 (IEC 664-1)		
nput / output isolation	4.2kVdc		
nput / ground isolation	2.2kVdc		
Dutput / ground isolation		0.75kVdc	
Cofety Standarda	 UL508 (certified) 		
Salety Standards	EN60950 (reference) ENECO22(2010 (CEDD22))		
Safety Standards	 EN55022:2010 (CISPR22) EN55011:2009 /A1:2010 EN61000-3-2:2014 	Class A Class A Class A	
IMC Emission	 EN55022:2010 (CISPR22) EN55011:2009 /A1:2010 	Class A	
MC Emission	 EN55022:2010 (CISPR22) EN55011:2009 /A1:2010 EN61000-3-2:2014 EN61000-4-2:2008 EN61000-4-3:2006 /A2:2010 EN61000-4-4:2012 EN61000-4-5:2014 	Class A Class A Level 3 Level 3 Level 3 Level 3 Level 3	
IMC Emission IMC Immunity Protection degree	 EN55022:2010 (CISPR22) EN55011:2009 /A1:2010 EN61000-3-2:2014 EN61000-4-2:2008 EN61000-4-3:2006 /A2:2010 EN61000-4-4:2012 EN61000-4-5:2014 EN61000-4-11:2004 /A1:2010 	Class A Class A Level 3 Level 3 Level 3 Level 3 Level 2	2Hours / axis (X,Y,Z)
MC Emission MC Immunity Protection degree fibration sinuosoidal	 EN55022:2010 (CISPR22) EN55011:2009 /A1:2010 EN61000-3-2:2014 EN61000-4-2:2008 EN61000-4-3:2006 /A2:2010 EN61000-4-4:2012 EN61000-4-5:2014 EN61000-4-5:2014 EN61000-4-11:2004 /A1:2010 EN60529:1989 /A:2013 	Class A Class A Level 3 Level 3 Level 3 Level 3 Level 2 IP20	
IMC Emission IMC Immunity Protection degree //ibration sinuosoidal Shock	 EN55022:2010 (CISPR22) EN55011:2009 /A1:2010 EN61000-3-2:2014 EN61000-4-2:2008 EN61000-4-3:2006 /A2:2010 EN61000-4-4:2012 EN61000-4-4:2012 EN61000-4-5:2014 EN61000-4-5:2014 EN61000-4-11:2004 /A1:2010 EN60529:1989 /A:2013 IEC 60068-2-6:2007 IEC 60068-2-27:2008 	Class A Class A Level 3 Level 3 Level 3 Level 3 Level 2 IP20 (5-17.8Hz: ±1.6mm; 17.8-500Hz: 2g	tion, 18 bumps total)
EMC Emission EMC Immunity Protection degree //ibration sinuosoidal Shock Connection terminals	 EN55022:2010 (CISPR22) EN55011:2009 /A1:2010 EN61000-3-2:2014 EN61000-4-2:2008 EN61000-4-3:2006 /A2:2010 EN61000-4-4:2012 EN61000-4-4:2012 EN61000-4-5:2014 EN61000-4-5:2014 EN61000-4-11:2004 /A1:2010 EN60529:1989 /A:2013 IEC 60068-2-6:2007 IEC 60068-2-27:2008 	Class A Class A Level 3 Level 3 Level 3 Level 3 Level 2 IP20 (5-17.8Hz: ±1.6mm; 17.8-500Hz: 2g (30g 6ms, 20g 11ms; 3 bumps / direct	tion, 18 bumps total)
MC Emission MC Immunity Protection degree fibration sinuosoidal shock connection terminals case material	 EN55022:2010 (CISPR22) EN55011:2009 /A1:2010 EN61000-3-2:2014 EN61000-4-2:2008 EN61000-4-3:2006 /A2:2010 EN61000-4-4:2012 EN61000-4-4:2012 EN61000-4-5:2014 EN61000-4-5:2014 EN61000-4-11:2004 /A1:2010 EN60529:1989 /A:2013 IEC 60068-2-6:2007 IEC 60068-2-27:2008 	Class A Class A Level 3 Level 3 Level 3 Level 3 Level 2 IP20 (5-17.8Hz: ±1.6mm; 17.8-500Hz: 2g (30g 6ms, 20g 11ms; 3 bumps / direc 2.5mm², screw type pluggable (2412AWC	tion, 18 bumps total)
,	 EN55022:2010 (CISPR22) EN55011:2009 /A1:2010 EN61000-3-2:2014 EN61000-4-2:2008 EN61000-4-3:2006 /A2:2010 EN61000-4-4:2012 EN61000-4-4:2012 EN61000-4-5:2014 EN61000-4-5:2014 EN61000-4-11:2004 /A1:2010 EN60529:1989 /A:2013 IEC 60068-2-6:2007 IEC 60068-2-27:2008 	Class A Class A Level 3 Level 3 Level 3 Level 3 Level 2 IP20 (5-17.8Hz: ±1.6mm; 17.8-500Hz: 2g (30g 6ms, 20g 11ms; 3 bumps / direc 2.5mm², screw type pluggable (2412AWC Aluminum	tion, 18 bumps total)

1) Possib ie al nominal voltage Notes:

- Technical parameters are typical, measured in laboratory environment at 25°C and 400Vac / 50Hz.
 - 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.

NPSW480

AC/DC Power Supplies 480W wide input range



