











■ Main Features

- High efficiency and compact size
- Only 63mm width aluminum enclosure
- Overload 130%
- Excellent field reliability record
- High operating temperature with no derating

NPSM240 Series – Rev.V9.0 Page 1/3



SUPPLY CARE Add only to Vidage range 12 19905 23 22906 45 59906 77 2900	TECHNICAL DATA						
Table Tabl	Model type	NPSM240-12	NPSM240-24	NPSM240-24P	NPSM240-48P	NPSM240-72P	
1.2.5998		4207		(4-	40) ()	7011	
19.1-14A 10A 50A 3.5A 50A 3.5A 50A 50A 3.5A 50A 50A 4.6A 50A 13.5A 6.6A 4.6A 50A							
19.58							
Section Sect	Overload limit						
Special Spec	Short circuit peak current						
Note to the	Load regulation	≤ 1.5%	≤ 1%	≤ 2.5%	≤ 1	5%	
Vin = 1200/de	Ripple & Noise ¹	≤ 150mVpp		≤ 1001	mVpp		
Protections	Hold up time						
Thermal protection							
Satus Signals	Protections	Thermal protection					
DC OK - dry contact (NO, 24/Wc/ L/A)	Output overvoltage protection	≥ 18Vdc	≥ 33	Vdc	≥ 68Vdc	≥ 100Vdc	
Parallel connection	Status Signals	_	· · · · · · · · · · · · · · · · · · ·				
Nominal: 120 / 240Vac (UL certified) Range: 90.132 / 187.364Vac Frequency Range: 90.132 / 187.364Vac Frequency Range: 90.132 / 187.364Vac Prefrequency Range: 90.132 / 187.364Vac Prefrequency Range: 90.132 / 187.364Vac Range: 9	Parallel connection	Possible for redundancy (with external ORing module)					
Nominal: 120/2400/set UL certified	INPUT DATA	- (models) inclu	cai Oiling circuit				
Imput AC rated voltage Face State With Various Face F			Nom	inal: 120 / 240Vac (UL certi	fied)		
Injust A Crated current	Input AC rated voltage Frequency	Range: 90132 / 187264Vac Settable with voltage input selector					
Vin = 120/Vac	Input DC rated voltage	270345Vdc (only with 240V selected)					
	Input AC rated current Vin = 120Vac Vin = 240Vac						
1.3A				2.UA			
Min	•	1.3A					
Second S	Vin = 345Vdc						
Touch (leakage) current	Inrush peak current						
Fuse 6.3AT (not user replaceable Fuse 6.3AT (not user replaceable Fuse 10AT or MCB 10A C cruwr Recommended external protection Recommended to provide external surge arresters (SPD) according to local regulations. Recommended to provide external surge arresters (SPD) according to local regulations. Recommended to provide external surge arresters (SPD) according to local regulations. Recommended to provide external surge arresters (SPD) according to local regulations. Recommended to provide external surge arresters (SPD) according to local regulations. Recommended to provide external surge arresters (SPD) according to local regulations. Recommended to provide external surge arresters (SPD) according to local regulations. Recommended to provide external surge arresters (SPD) according to local regulations. Recommended to provide external surge arresters (SPD) according to local regulations. Recommended to provide external surge arresters (SPD) according to local regulations. Recommended to provide external surge arresters (SPD) according to local regulations. Recommended to provide external surge arresters (SPD) according to local regulations. Recommended to provide external surge arresters (SPD) according to local regulations. Recommended to provide external surge arresters (SPD) according to local surge arrester (SPD) according to local surge arrest	•						
Fuse 10AT or MCB 10A C curve							
Tis strongly recommended to provide external surge arresters (SPD) according to local regulations.	internal protection ruse						
Sefficiency	Recommended external protection	It is strong				gulations.	
Community Comm	GENERAL DATA						
Agric+ 70°C UL certified up to 50°C	Efficiency					1	
Operating temperature* UL certified up to 50°C	Dissipated power	< 36.5W < 34.5W	< 33W		< 33W	< 34.5W	
Storage temperature	Operating temperature ²		i i i i i i i i i i i i i i i i i i i				
Humidity	Derating			- 5.0W/°C over 60°C			
Life time expectation	Storage temperature		- 40°C+ 80°C				
Protection degree	Humidity	595% r.H. non condensing					
Pollution degree	Life time expectation	77'894h (8.8 years) at 25°C ambient full load					
Protection Class	Overvoltage category	■ EN50178	III				
A 2,2kVdc Input / ground isolation 2.2kVdc Output / ground isolation 0.75kVdc Safety Standards EN60950 (reference) EN50178 (reference) EN50178 (reference) EN50178 (reference) EN50178 (reference) EN50178 (reference) EN50178 (reference) EMC Emission EN55012 (CISPR11) Class A EN55022 (CISPR22) Class A EN61000-4-2 (Level 3 EN61000-4-3 (Level 3 EN61000-4-4 (Level 3 EN61000-4-5 (Level 3 EN61000-4-1 (Level 2 EN61000-4-11 (Level 2 EN60000-4-11 (Level 3 EN60000-4-2 (Level 3 EN60000-4-2 (Level 3 EN60000-4-2 (Level 3 EN60000-4-2 (Level 3 EN60000-4-3 (Level 3 EN60000-4-2 (Level 3 EN60000-4-3 (Level 3 EN60000-4-3 (Level 3 EN60000-4-3 (Level 3 EN60000-4-4 (Level 3	Pollution degree	■ IEC60664-1	2				
Disput / ground isolation	Protection Class	CLASS	<u> </u>				
Output / ground isolation 0.75kVdc Safety Standards • UL508 (reference) • EN60950 (reference) (reference) • EN50178 (reference) • EN55011 (CISPR11) • EN55022 (CISPR22) Class A • EN61000-4-2 (EN61000-4-3) Level 3 • EN61000-4-3 (EN61000-4-4) Level 3 • EN61000-4-5 (EN61000-4-5) Level 3 • EN61000-4-11 (Evel 2) EVENGALIAN (EVEL) Protection degree • EN60529 (P20) Vibration sinuosoidal • IEC 60068-2-6 (5-17.8Hz: ±1.6mm; 17.8-500Hz: 2g 2hours / axis (X,Y,Z) Shock • IEC 60068-2-27 (30g 6ms, 20g 11ms; 3 bumps / direction, 18 bumps total) Connection terminals 2.5mm², screw type pluggable (2412AWG) Case material Aluminum Weight 0.75kg Size (W x H x D) 63.0 x 140.0 x 117.0mm	Input / output isolation			4.2kVdc			
UL508	Input / ground isolation	2.2kVdc					
EN60950 (reference)	Output / ground isolation	0.75kVdc					
EN60950 (reference)		■ UL508	(certified E3565	53)			
EN55011 (CISPR11) Class A EN55022 (CISPR22) Class A EN61000-4-2 Level 3 EN61000-4-3 Level 3 EN61000-4-4 Level 3 EN61000-4-5 Level 3 EN61000-4-1 Level 2 Protection degree EN60529 IP20 Vibration sinuosoidal IEC 60068-2-6 (5-17.8Hz: ±1.6mm; 17.8-500Hz: 2g 2hours / axis (X,Y,Z) Shock IEC 60068-2-7 (30g 6ms, 20g 11ms; 3 bumps / direction, 18 bumps total) Connection terminals 2.5mm², screw type pluggable (2412AWG) Case material Aluminum Weight O.75kg Size (W x H x D) 63.0 x 140.0 x 117.0mm	Safety Standards	■ EN60950	•				
EMC Emission EN55022 (CISPR22) Class A EN61000-4-2 Level 3 EN61000-4-3 Level 3 EN61000-4-4 Level 3 EN61000-4-5 Level 3 EN61000-4-11 Level 2 Protection degree EN60529 IP20 Vibration sinuosoidal EC 60068-2-6 (5-17.8Hz: ±1.6mm; 17.8-500Hz: 2g 2hours / axis (X,Y,Z) EN6068-2-7 (30g 6ms, 20g 11ms; 3 bumps / direction, 18 bumps total) Connection terminals Case material Weight Size (W x H x D) EN55022 (CISPR22) Class A Level 3 Le		■ EN50178	(reference)				
ENS5022 (GSPR22) Class A EN61000-4-2 Level 3 EN61000-4-3 Level 3 EN61000-4-4 Level 3 EN61000-4-5 Level 3 EN61000-4-11 Level 2 Protection degree EN60529 IP20 Vibration sinuosoidal IEC 60068-2-6 (5-17.8Hz: ±1.6mm; 17.8-500Hz: 2g 2hours / axis (X,Y,Z) Shock IEC 60068-2-7 (30g 6ms, 20g 11ms; 3 bumps / direction, 18 bumps total) Connection terminals 2.5mm², screw type pluggable (2412AWG) Case material Aluminum Weight 0.75kg Size (W x H x D) 63.0 x 140.0 x 117.0mm	EMC Emission		,				
EN61000-4-3							
EMC Immunity ■ EN61000-4-4							
■ EN61000-4-5 Level 3 ■ EN61000-4-11 Level 2 Protection degree ■ EN60529 IP20 Vibration sinuosoidal ■ IEC 60068-2-6 (5-17.8Hz: ±1.6mm; 17.8-500Hz: 2g 2hours / axis (X,Y,Z) Shock ■ IEC 60068-2-27 (30g 6ms, 20g 11ms; 3 bumps / direction, 18 bumps total) Connection terminals 2.5mm², screw type pluggable (2412AWG) Case material Aluminum Weight 0.75kg Size (W x H x D) 63.0 x 140.0 x 117.0mm	EMC Immunity						
Protection degree ■ EN60529 IP20 Vibration sinuosoidal ■ IEC 60068-2-6 (5-17.8Hz: ±1.6mm; 17.8-500Hz: 2g 2hours / axis (X,Y,Z) Shock ■ IEC 60068-2-27 (30g 6ms, 20g 11ms; 3 bumps / direction, 18 bumps total) Connection terminals 2.5mm², screw type pluggable (2412AWG) Case material Aluminum Weight 0.75kg Size (W x H x D) 63.0 x 140.0 x 117.0mm	Line minumey						
Vibration sinuosoidal ■ IEC 60068-2-6 (5-17.8Hz: ±1.6mm; 17.8-500Hz: 2g 2hours / axis (X,Y,Z) Shock ■ IEC 60068-2-27 (30g 6ms, 20g 11ms; 3 bumps / direction, 18 bumps total) Connection terminals 2.5mm², screw type pluggable (2412AWG) Case material Aluminum Weight 0.75kg Size (W x H x D) 63.0 x 140.0 x 117.0mm							
Vibration sinuosoidal ■ IEC 60068-2-6 (5-17.8Hz: ±1.6mm; 17.8-500Hz: 2g 2hours / axis (X,Y,Z) Shock ■ IEC 60068-2-27 (30g 6ms, 20g 11ms; 3 bumps / direction, 18 bumps total) Connection terminals 2.5mm², screw type pluggable (2412AWG) Case material Aluminum Weight 0.75kg Size (W x H x D) 63.0 x 140.0 x 117.0mm							
Shock IEC 60068-2-27 (30g 6ms, 20g 11ms; 3 bumps / direction, 18 bumps total) Connection terminals Case material Weight Size (W x H x D) IEC 60068-2-27 (30g 6ms, 20g 11ms; 3 bumps / direction, 18 bumps total) Aluminum O.75kg G3.0 x 140.0 x 117.0mm	Protection degree	 EINDU329 					
Connection terminals Case material Aluminum Weight Size (W x H x D) 2.5mm², screw type pluggable (2412AWG) Aluminum 0.75kg 63.0 x 140.0 x 117.0mm	-		(5-17 8Hz·+1 6n	nm: 17.8-500Hz: 2ø 2hours	/ axis (X.Y 7)		
Case material Aluminum Weight 0.75kg Size (W x H x D) 63.0 x 140.0 x 117.0mm	Vibration sinuosoidal	■ IEC 60068-2-6					
Weight 0.75kg Size (W x H x D) 63.0 x 140.0 x 117.0mm	Vibration sinuosoidal Shock	■ IEC 60068-2-6	(30g 6ms, 20g 1	1ms; 3 bumps / direction, 1	8 bumps total)		
Size (W x H x D) 63.0 x 140.0 x 117.0mm	Vibration sinuosoidal Shock Connection terminals	■ IEC 60068-2-6	(30g 6ms, 20g 1	1ms; 3 bumps / direction, 1 screw type pluggable (24	8 bumps total)		
	Vibration sinuosoidal Shock Connection terminals Case material	■ IEC 60068-2-6	(30g 6ms, 20g 1	1ms; 3 bumps / direction, 1 screw type pluggable (24 Aluminum	8 bumps total)		
1) Ripple and Noise are measured with 20MHz bandwidth, probe terminated with a 0.1μF MKP parallel capacitor.	Shock Connection terminals Case material Weight	■ IEC 60068-2-6	(30g 6ms, 20g 1	1ms; 3 bumps / direction, 1 screw type pluggable (24 Aluminum 0.75kg	8 bumps total)		

Ripple and Noise are measured with 20MHz bandwidth, probe terminated with a 0.1μF MKP parallel capacitor.
 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.

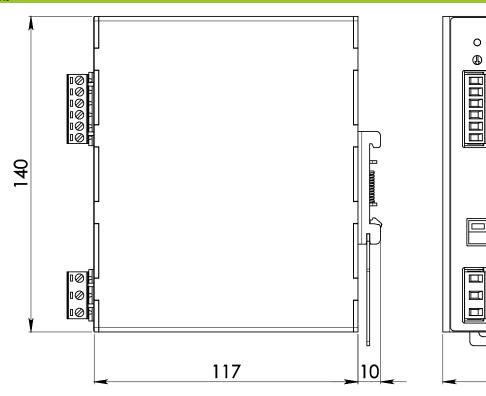
 Power rating, losses, efficiency, ripple, thermal behaviour and start-up may change outside of the nominal rated input range. Contact factory for details.

 Data may change without prior notice in order to improve the product.

NPSM240 Series – Rev.V9.0 Page 2/3



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:

63

- += Positive DC
- -= Negative DC

Signalling:

DC OK: dry contact

- NO
- COM

NPSM240 Series – Rev.V9.0 Page 3/3