











■ 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

AC/DC Power Supply 240W



TECHNICAL DATA

TECHNICAL DATA			1		
Model type	NPSM240-12	NPSM240-24	NPSM240-24P	NPSM240-48P	NPSM240-72P
OUTPUT DATA	12Vdc	2/	lVdc	48Vdc	72Vdc
Rated voltage Adj. output voltage range	12Vdc 1215Vdc		28Vdc	48Vac 4555Vdc	72Vac 7285Vdc
Continuous current	1614A		.0A	5.0A	3.5A
Overload limit	1916A		3.5A	6.8A	4.6A
Short circuit peak current	42A		5.5A 15A	20A	14A
Load regulation	42A ≤ 1.5%		≤ 2.5%	20A ≤1.	
Ripple & Noise ¹	≤ 1.57% ≤ 150mVpp	5 1/0	≤ 2.5%		.570
Hold up time	2 130mvpp		3 100	ширр	
Vin = 120Vac			≥ 60ms		
Vin = 240Vac			≥ 70ms		
Protections	 Overload, short c Thermal protection Output overvolta 		2,000		
Output overvoltage protection	≥ 18Vdc	≥ 3	3Vdc	≥ 68Vdc	≥ 100Vdc
Status Signals	 DC OK - green LEI DC OK - dry conta) act (NO, 24Vdc / 1A)			
Parallel connection	Possible for redundancy (with external ORing module) P (models) - include internal ORing circuit				
INPUT DATA	(3333)	<u> </u>			
Input AC rated voltage Frequency	Nominal: 120 / 240Vac (UL certified) Range: 90132 / 187264Vac Settable with voltage input selector 4763Hz				
Input DC rated voltage	270345Vdc (only with 240V selected)				
Input AC rated current					
Vin = 120Vac Vin = 240Vac	4.0A 2.0A				
input DC rated current					
√in = 270Vdc			1.3A		
/in = 345Vdc	1.0A				
nrush peak current	≤ 40A				
Fouch (leakage) current	≤ 40A ≤ 0.8mA				
		=		1.)	
Internal protection fuse	Fuse 6.3AT (not user replaceable)				
internal protection rase					
Recommended external protection	It is strong	F	use 10AT or MCB 10A C cur ide external surge arresters	ve	ulations.
Recommended external protection		F y recommended to prov	use 10AT or MCB 10A C cur ide external surge arresters	ve (SPD) according to local reg	
Recommended external protection GENERAL DATA Efficiency	> 84% > 86%	y recommended to prov > 88%	use 10AT or MCB 10A C curride external surge arresters	ve (SPD) according to local reg > 8	8%
Recommended external protection GENERAL DATA Efficiency		F y recommended to prov	use 10AT or MCB 10A C cur ide external surge arresters > 86% < 39W	ve (SPD) according to local reg	
Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ²	> 84% > 86%	y recommended to prov > 88%	suse 10AT or MCB 10A C curide external surge arresters > 86% < 39W - 40°C+ 70°C	ve (SPD) according to local reg > 8	8%
Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ²	> 84% > 86%	y recommended to prov > 88%	> 86% < 39W - 40°C+ 70°C UL certified up to 50°C	ve (SPD) according to local reg > 8	8%
Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ²	> 84% > 86%	y recommended to prov > 88%	> 86% < 39W - 40°C+ 70°C UL certified up to 50°C - 5.0W/°C over 60°C	ve (SPD) according to local reg > 8	8%
Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ²	> 84% > 86%	y recommended to prov > 88%	> 86% < 39W - 40°C+ 70°C UL certified up to 50°C	ve (SPD) according to local reg > 8	8%
Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ² Derating Storage temperature	> 84% > 86%	y recommended to prov > 88%	> 86% < 39W - 40°C+ 70°C UL certified up to 50°C - 5.0W/°C over 60°C	ve (SPD) according to local reg > 8 < 33W	8%
Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ² Derating Storage temperature Humidity	> 84% > 86%	y recommended to prov > 88% < 33W	suse 10AT or MCB 10A C curide external surge arresters > 86% < 39W - 40°C+ 70°C UL certified up to 50°C - 5.0W/°C over 60°C - 40°C+ 80°C	ve (SPD) according to local reg > 8 < 33W	8%
Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ² Derating Storage temperature Humidity Life time expectation	> 84% > 86% < 36.5W < 34.5W	y recommended to prov > 88% < 33W	suse 10AT or MCB 10A C curide external surge arresters > 86% < 39W - 40°C+ 70°C UL certified up to 50°C - 5.0W/°C over 60°C - 40°C+ 80°C 595% r.H. non condensing	ve (SPD) according to local reg > 8 < 33W	8%
Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ² Derating Storage temperature Humidity Life time expectation Overvoltage category	> 84% > 86% < 36.5W < 34.5W	y recommended to prov > 88% < 33W	suse 10AT or MCB 10A C curide external surge arresters > 86% < 39W - 40°C+ 70°C UL certified up to 50°C - 5.0W/°C over 60°C - 40°C+ 80°C 595% r.H. non condensing	ve (SPD) according to local reg > 8 < 33W	8%
Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ² Derating Storage temperature Humidity Life time expectation Overvoltage category Pollution degree	> 84% > 86% < 36.5W < 34.5W • EN50178 • IEC60664-1	y recommended to prov > 88% < 33W 77'894H III 2	suse 10AT or MCB 10A C curide external surge arresters > 86% < 39W - 40°C+ 70°C UL certified up to 50°C - 5.0W/°C over 60°C - 40°C+ 80°C 595% r.H. non condensing	ve (SPD) according to local reg > 8 < 33W	8%
Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ² Derating Storage temperature Humidity Life time expectation Overvoltage category Pollution degree Protection Class	> 84% > 86% < 36.5W < 34.5W • EN50178 • IEC60664-1	y recommended to prov > 88% < 33W 77'894h	suse 10AT or MCB 10A C curide external surge arresters > 86% < 39W - 40°C+ 70°C UL certified up to 50°C - 5.0W/°C over 60°C - 40°C+ 80°C 595% r.H. non condensing (8.8 years) at 25°C ambient	ve (SPD) according to local reg > 8 < 33W	8%
Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ² Derating Storage temperature Humidity Life time expectation Divervoltage category Pollution degree Protection Class Input / output isolation	> 84% > 86% < 36.5W < 34.5W • EN50178 • IEC60664-1	y recommended to prov > 88% < 33W 77'894H III 2	isuse 10AT or MCB 10A C curide external surge arresters > 86% < 39W - 40°C+ 70°C UL certified up to 50°C - 5.0W/°C over 60°C - 40°C+ 80°C 595% r.H. non condensing (8.8 years) at 25°C ambient	ve (SPD) according to local reg > 8 < 33W	8%
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Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ² Derating Storage temperature Humidity Life time expectation Overvoltage category Pollution degree Protection Class Input / output isolation Input / ground isolation Output / ground isolation Safety Standards EMC Emission	> 84% > 86% < 36.5W < 34.5W • EN50178 • IEC60664-1 • CLASS • UL508 • EN60950 • EN50178 • EN55011 (CISPR1 • EN55012 (CISPR2 • EN61000-4-2 • EN61000-4-3	y recommended to prov > 88% < 33W 77'894h III 2 I (certified E356 (reference) (reference) (reference) 1) Class A Level 3 Level 3	iuse 10AT or MCB 10A C cur ide external surge arresters > 86% < 39W - 40°C+ 70°C UL certified up to 50°C - 5.0W/°C over 60°C - 40°C+ 80°C 595% r.H. non condensing (8.8 years) at 25°C ambient 4.2kVdc 2.2kVdc 0.75kVdc	ve (SPD) according to local reg > 8 < 33W	8%
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Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ² Derating Storage temperature Humidity Life time expectation Divervoltage category Pollution degree Protection Class Input / output isolation Input / ground isolation Dutput / ground isolation Dutput / ground isolation Safety Standards EMC Emission EMC Immunity	> 84% > 86% < 36.5W < 34.5W • EN50178 • IEC60664-1 • CLASS • UL508 • EN60950 • EN50178 • EN55011 (CISPR1 • EN55022 (CISPR2 • EN61000-4-2 • EN61000-4-3 • EN61000-4-4 • EN61000-4-5	y recommended to prov > 88% < 33W 77'894h III 2 I (certified E356 (reference) (reference) (reference) 1) Class A Level 3 Level 3 Level 3 Level 3 Level 3	iuse 10AT or MCB 10A C cur ide external surge arresters > 86% < 39W - 40°C+ 70°C UL certified up to 50°C - 5.0W/°C over 60°C - 40°C+ 80°C 595% r.H. non condensing (8.8 years) at 25°C ambient 4.2kVdc 2.2kVdc 0.75kVdc	ve (SPD) according to local reg > 8 < 33W	8%
Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ² Derating Storage temperature Humidity Life time expectation Overvoltage category Pollution degree Protection Class Input / output isolation Input / ground isolation Output / ground isolation Output / ground isolation EMC Emission EMC Immunity Protection degree	> 84% > 86% < 36.5W < 34.5W • EN50178 • IEC60664-1 • CLASS • UL508 • EN60950 • EN50178 • EN55011 (CISPR1 • EN55022 (CISPR2 • EN61000-4-2 • EN61000-4-3 • EN61000-4-3 • EN61000-4-5 • EN61000-4-11	y recommended to prov > 88% < 33W 77'894h III 2 I (certified E356 (reference) (reference) (reference) 1) Class A Level 3 Level 3 Level 3 Level 3 Level 3 Level 2 IP20	iuse 10AT or MCB 10A C cur ide external surge arresters > 86% < 39W - 40°C+ 70°C UL certified up to 50°C - 5.0W/°C over 60°C - 40°C+ 80°C 595% r.H. non condensing (8.8 years) at 25°C ambient 4.2kVdc 2.2kVdc 0.75kVdc	ye (SPD) according to local reg > 8 < 33W	8%
Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ² Derating Storage temperature Humidity If et time expectation Overvoltage category Pollution degree Protection Class Input / output isolation Dutput / ground isolation Dutput / ground isolation Cafety Standards EMC Emission EMC Immunity Protection degree //bration sinuosoidal	> 84% > 86% < 36.5W < 34.5W • EN50178 • IEC60664-1 • CLASS • EN60950 • EN50178 • EN55011 (CISPR1 • EN55022 (CISPR2 • EN61000-4-2 • EN61000-4-3 • EN61000-4-3 • EN61000-4-5 • EN61000-4-11 • EN60529	y recommended to prove > 88%	isuse 10AT or MCB 10A C curide external surge arresters > 86% < 39W - 40°C+ 70°C UL certified up to 50°C - 40°C+ 80°C 595% r.H. non condensing (8.8 years) at 25°C ambient 4.2kVdc 2.2kVdc 0.75kVdc 563)	/e (SPD) according to local reg > 8 < 33W 3 full load / axis (X,Y,Z)	8%
Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ² Derating Storage temperature Humidity Life time expectation Overvoltage category Pollution degree Protection Class Input / output isolation Output / ground isolation Output / ground isolation Safety Standards EMC Emission EMC Immunity Protection degree Vibration sinuosoidal Shock	> 84% > 86% < 36.5W < 34.5W • EN50178 • IEC60664-1 • CLASS • EN50178 • EN50178 • EN5011 (CISPR1 • EN55012 (CISPR2 • EN61000-4-2 • EN61000-4-3 • EN61000-4-3 • EN61000-4-5 • EN61000-4-11 • EN60529 • IEC 60068-2-6	77'894h III 2 I (certified E356 (reference) (reference) (reference) 1) Class A 2) Class A Level 3 Level 3 Level 3 Level 3 Level 2 IP20 (5-17.8Hz: ±1.6 (30g 6ms, 20g	isuse 10AT or MCB 10A C curide external surge arresters > 86% < 39W - 40°C+ 70°C UL certified up to 50°C - 40°C+ 80°C 595% r.H. non condensing (8.8 years) at 25°C ambient 4.2kVdc 2.2kVdc 0.75kVdc 563)	/e (SPD) according to local reg > 8 < 33W 3 full load / axis (X,Y,Z) 8 bumps total)	8%
Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ² Derating Storage temperature Humidity Life time expectation Overvoltage category Pollution degree Protection Class Input / output isolation Output / ground isolation Output / ground isolation Safety Standards EMC Emission EMC Immunity Protection degree Vibration sinuosoidal Shock Connection terminals	> 84% > 86% < 36.5W < 34.5W • EN50178 • IEC60664-1 • CLASS • EN50178 • EN50178 • EN5011 (CISPR1 • EN55012 (CISPR2 • EN61000-4-2 • EN61000-4-3 • EN61000-4-3 • EN61000-4-5 • EN61000-4-11 • EN60529 • IEC 60068-2-6	77'894h III 2 I (certified E356 (reference) (reference) (reference) 1) Class A 2) Class A Level 3 Level 3 Level 3 Level 3 Level 2 IP20 (5-17.8Hz: ±1.6 (30g 6ms, 20g	isuse 10AT or MCB 10A C curide external surge arresters > 86% < 39W - 40°C+ 70°C UL certified up to 50°C - 5.0W/°C over 60°C - 40°C+ 80°C 595% r.H. non condensing (8.8 years) at 25°C ambient 4.2kVdc 2.2kVdc 0.75kVdc 563)	/e (SPD) according to local reg > 8 < 33W 3 full load / axis (X,Y,Z) 8 bumps total)	8%
Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ² Derating Storage temperature Humidity Life time expectation Overvoltage category Pollution degree Protection Class Input / output isolation Output / ground isolation Output / ground isolation Safety Standards EMC Emission EMC Immunity Protection degree Vibration sinuosoidal Shock Connection terminals Case material	> 84% > 86% < 36.5W < 34.5W • EN50178 • IEC60664-1 • CLASS • EN50178 • EN50178 • EN5011 (CISPR1 • EN55012 (CISPR2 • EN61000-4-2 • EN61000-4-3 • EN61000-4-3 • EN61000-4-5 • EN61000-4-11 • EN60529 • IEC 60068-2-6	77'894h III 2 I (certified E356 (reference) (reference) (reference) 1) Class A 2) Class A Level 3 Level 3 Level 3 Level 3 Level 2 IP20 (5-17.8Hz: ±1.6 (30g 6ms, 20g	isuse 10AT or MCB 10A C curide external surge arresters > 86% < 39W - 40°C+ 70°C UL certified up to 50°C - 5.0W/°C over 60°C - 40°C+ 80°C 595% r.H. non condensing (8.8 years) at 25°C ambient (8.8 years) at 25°C ambient (9.8 years)	/e (SPD) according to local reg > 8 < 33W 3 full load / axis (X,Y,Z) 8 bumps total)	8%
Recommended external protection GENERAL DATA Efficiency Dissipated power	> 84% > 86% < 36.5W < 34.5W • EN50178 • IEC60664-1 • CLASS • EN50178 • EN50178 • EN5011 (CISPR1 • EN55012 (CISPR2 • EN61000-4-2 • EN61000-4-3 • EN61000-4-3 • EN61000-4-5 • EN61000-4-11 • EN60529 • IEC 60068-2-6	77'894h III 2 I (certified E356 (reference) (reference) (reference) 1) Class A 2) Class A Level 3 Level 3 Level 3 Level 3 Level 2 IP20 (5-17.8Hz: ±1.6 (30g 6ms, 20g	isuse 10AT or MCB 10A C curide external surge arresters > 86% < 39W - 40°C+ 70°C UL certified up to 50°C - 5.0W/°C over 60°C - 40°C+ 80°C 595% r.H. non condensing (8.8 years) at 25°C ambient 4.2kVdc 2.2kVdc 0.75kVdc 563)	/e (SPD) according to local reg > 8 < 33W 3 full load / axis (X,Y,Z) 8 bumps total)	8%

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.

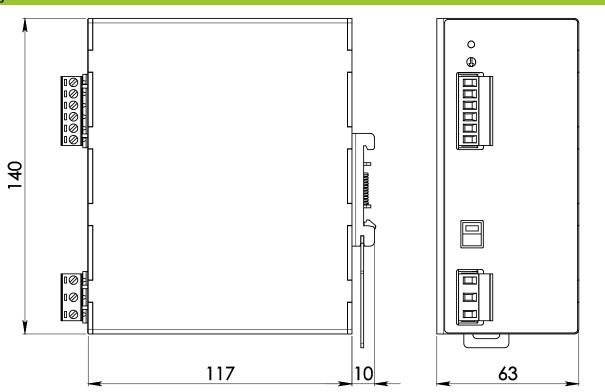
Data may change without prior notice in order to improve the product.

NPSM240

AC/DC Power Supply 240W



DIMENSIONS



CONNECTION







Input Connection:

Single phase:

- 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