

- High efficiency and compact size
- Overload 130%
- Only 63mm width aluminum enclosure
- Excellent field reliability record



For reference only



TECHNICAL DATA

	NPSM240-12	NPSM240-24	NPSM240-24P	NPSM240-48P	NPSM240-72P
OUTPUT DATA					
Rated voltage	12Vdc	24Vdc		48Vdc	72Vdc
Adj. output voltage range	12...15Vdc	23...28Vdc		45...55Vdc	72...85Vdc
Continuous current	16...14A	10A		5A	3.5A
Overload limit	19...16A	13.5A		6.8A	4.6A
Load regulation	≤ 1.5%	≤ 1%	≤ 2.5%		≤ 1.5%
Ripple and noise	≤ 150mVpp			≤ 100mVpp	
Hold up time			≥ 70ms		
Protections	<ul style="list-style-type: none"> • Overload/short circuit: hiccup mode • Thermal protection • Output overvoltage 				
Status signals	<ul style="list-style-type: none"> • DC OK - green LED • DC OK - dry contact (NO, 24Vdc / 1A) 				
Parallel connection	<ul style="list-style-type: none"> • Possible for redundancy (with external ORing module) • P (models) - include internal ORing circuit 				
INPUT DATA					
Input AC rated voltage	Nominal: 120 / 240Vac (range 90...132 / 187...264Vac)				
Frequency	Settable with voltage input selector 47...63Hz				
Input DC rated voltage	270...345Vdc (only with 240V selected)				
Input AC rated current					
Vin = 120Vac	4A				
Vin = 240Vac	2A				
Input DC rated current					
Vin = 270Vdc	1.3A				
Vin = 345Vdc	1A				
Inrush peak current / I ² t	≤ 32A / 1.18A ² s				
Touch (leakage) current	≤ 0.8mA				
Internal protection fuse	Fuse 6.3AT (not user replaceable)				
Recommended external protection	Fuse 10AT or MCB 10A C curve / SPD				
GENERAL DATA					
Efficiency	> 84% ... > 86%	> 88%	> 86%		> 88%
Dissipated power	< 36.5W ... < 34.5W	< 33W	< 39W	< 33W	< 34.5W
Operating temperature	- 40°C...+ 70°C (UL certified up to 50°C)				
Derating	- 5W/°C over 50°C				
Lifetime expectancy / MTBF	77'894h (8.8 years) at 25°C ambient full load / (MIL-HDBK-217F) 500'000h at 25°C ambient full load				
Overvoltage category	III				
Pollution degree	2 (IEC60664-1)				
Input / output isolation	4.2kVdc				
Input / ground isolation	2.2kVdc				
Output / ground isolation	0.75kVdc				
Standards & Approvals	UL508 (certified), EN60950 (reference), CE marking				
EMC Standards	EN61000-6-2, EN61000-6-4				
Protection degree	IP20 (EN60529)				
Connection terminals	2.5mm ² , screw type pluggable (24...12AWG)				
Case material	Aluminum				
Weight	0.75kg				
Size (W x H x D)	63 x 140 x 117mm				