

- 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
<b>OUTPUT DATA</b>					
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"> <li>• Overload/short circuit: hiccup mode</li> <li>• Thermal protection</li> <li>• Output overvoltage</li> </ul>				
Status signals	<ul style="list-style-type: none"> <li>• <b>DC OK</b> - green LED</li> <li>• <b>DC OK</b> - dry contact (NO, 24Vdc / 1A)</li> </ul>				
Parallel connection	<ul style="list-style-type: none"> <li>• Possible for redundancy (with external ORing module)</li> <li>• <b>P</b> (models) - include internal ORing circuit</li> </ul>				
<b>INPUT DATA</b>					
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 <sup>2</sup> t	≤ 32A / 1.18A <sup>2</sup> 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				
<b>GENERAL DATA</b>					
Efficiency	> 84% ... > 86%	> 88%	> 86%	> 88%	> 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 <sup>2</sup> , screw type pluggable (24...12AWG)				
Case material	Aluminum				