

- High efficiency and extremely compact size
- Only 40mm width aluminum enclosure
- Active PFC
- Overload 150%
- Constant current or hiccup mode limitation, user settable
- Up to 70°C operating temperature with no derating
- Wide range of output voltage
- Easy parallelable for power increase
- Codes ended with "H": include enhanced transient overvoltage protection (> 6kV)
- All models available as version "PH"



**ULTRA  
COMPACT**

For reference only



## TECHNICAL DATA

	NPSM241-12 (P, H)	NPSM241-24 (P, H)	NPSM241-36 (P, H)	NPSM241-48P (H)	NPSM241-72P (H)
<b>OUTPUT DATA</b>					
Rated voltage	12Vdc	24Vdc	36Vdc	48Vdc	72Vdc
Adj. output voltage range	12...15Vdc	22...29Vdc	32...40Vdc	45...55Vdc	70...85Vdc
Continuous current	15A	10A	7A	5A	3.3A
Overload limit in constant current	17A	11A	7.5A	7A	4A
Overload limit in hiccup (max. 5s)	20A	15A	10A	8.5A	5.5A
Load regulation	≤ 2%		≤ 1%		
Ripple and noise	≤ 160mVpp	≤ 260mVpp	≤ 300mVpp	≤ 400mVpp	≤ 550mVpp
Hold up time	≥ 25ms	≥ 20ms	≥ 15ms	≥ 20ms	≥ 15ms
Protections	<ul style="list-style-type: none"> <li>• Overload/short circuit: with constant current or hiccup mode (user settable)</li> <li>• Thermal protection</li> <li>• Input undervoltage lockout</li> <li>• Output overvoltage</li> </ul>				
Status signals	<ul style="list-style-type: none"> <li>• <b>DC OK</b> - green LED</li> <li>• <b>OVERLOAD</b> - red 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 power or 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...264Vac)				
Frequency	47...63Hz				
Input DC rated voltage	110...345Vdc				
Input AC rated current					
Vin = 120Vac	2.4A		3.0A		2.4A
Vin = 240Vac	1.2A		1.5A		1.2A
Input DC rated current					
Vin = 110Vdc	2.5A	2.6A	2.5A		2.6A
Vin = 345Vdc	1.2A	0.9A	1.2A		0.9A
Power factor correction	Active / > 0.9				
Inrush peak current / I <sup>2</sup> t	≤ 34A / 0.66A <sup>2</sup> s				
Touch (leakage) current	≤ 0.6mA				
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	> 90%		> 93%		> 93.5%
Dissipated power	< 25W		< 19W		< 17W
Operating temperature	- 40°C...+ 70°C (UL certified up to 70°C)				
Derating	No Derating				
Lifetime expectancy / MTBF	221'288h (25.2 years) at 25°C ambient full load / (MIL-HDBK-217F) 600'000h 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, not applicable for "-36", "H" and "PH" models), EN60950 (reference), CE marking				
EMC Standards	EN61000-3-2, EN61000-6-2, EN61000-6-3				