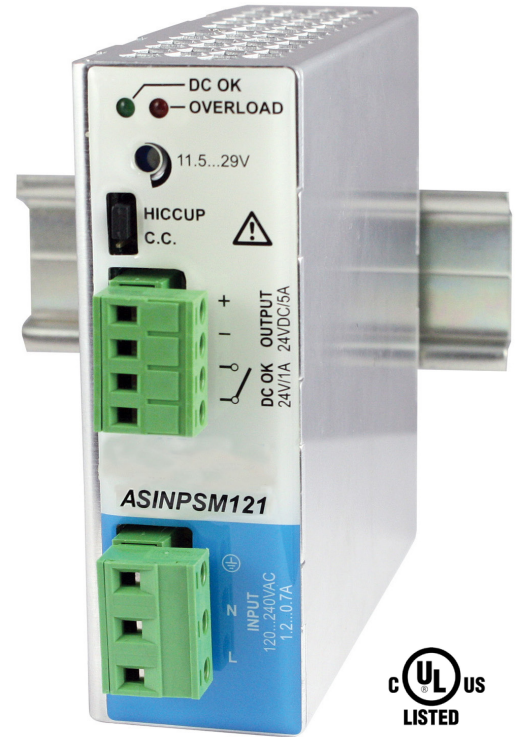


Main Features

- Smallest 120 watt DIN rail power supply on the market.
- High efficiency and extremely compact size.
- Active power factor corrector compliant to EN61000-3-2.
- 150% overload capability.
- Wide output voltage adjustable range.
- User settable limitation mode: Hiccup or constant current limitation.
- Parallel versions available.
- Only 35mm wide aluminium enclosure.
- 11.5 Vdc to 29Vdc adjustable output on model 121-12
- 23 Vdc to 56Vdc adjustable output on model 121-48



Input Connection:

Single phase:

- L = Line
- N = Neutral
- I = earth ground

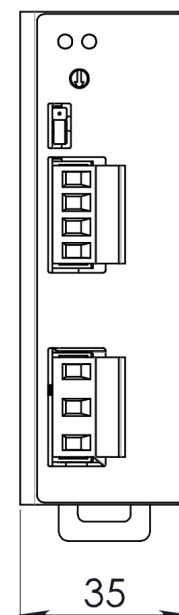
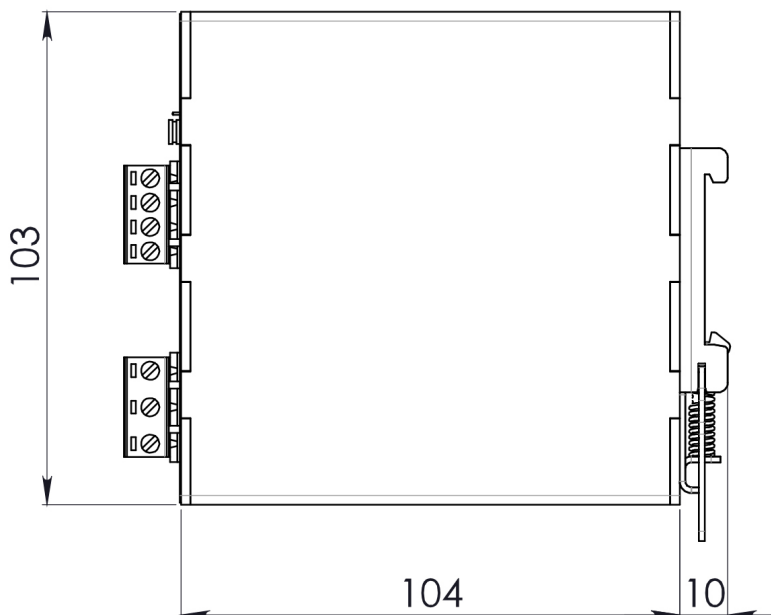
DC:

- L = +
- N = -
- I = earth ground

Output Connection:

- + = Positive DC
- - = Negative DC
- Dry contact = NC

Dimensions



TECHNICAL DATA

Model type	NPSM121-24	NPSM121-24P	NPSM121-48	NPSM121-48P
OUTPUT DATA				
Rated voltage	24Vdc		48Vdc	
Adj. output voltage range	11.5...29Vdc		23...56Vdc	
Continuous current	5A		2.5A	
Overload limit	7.5A		3.75A	
Short circuit peak current	15A in hiccup mode 7.5A in constant current mode		7.5A in hiccup mode 3.75A in constant current mode	
Load regulation	≤ 1%	≤ 3%	≤ 0.5%	≤ 1.5%
Ripple & Noise	≤ 60mVpp			
Hold up time	> 20ms			
User interface	- DC OK green LED - Overload red LED - Current limitation mode jumper - Dry contact (1A/30V)			
Output Protections	- Overload, short circuit, with constant current or hiccup mode (user settable) - Thermal protection - Input undervoltage lockout			
Output overvoltage protection	> 33Vdc		> 68Vdc	
Parallel connection	Up to 4 units for increased power			
Redundancy	(P) models include internal ORing circuit			
INPUT DATA				
Input AC rated voltage	Nominal: 120...240Vac (UL certified)			
Frequency	Range: 90...264Vac 47...63Hz			
Input DC rated voltage	110...345Vdc			
Input AC current	1.4A			
Uin = 120Vac	0.7A			
Input DC current	1.4A			
Uin = 110Vdc	0.5A			
Uin = 345Vdc				
Inrush peak current	< 40A			
Internal protection fuse	Fuse 3.15AT/250Vac (not user replaceable)			
External protection on AC line	MCB 4A C curve It is strongly recommended to provide external surge arresters (SPD) according to local regulations.			
GENERAL DATA				
Efficiency	> 90%	> 89%	> 90%	> 89%
Dissipated power	< 13.5W	< 15W	< 13.5W	< 15W
Operating temperature	- 35°C...+ 70°C / overtemperature protection UL certified up to 60°C Start-up type tested: - 35°C¹			
Derating	- 1.2W/°C over 60°C			
Storage temperature	- 40°C...+ 80°C			
Humidity	5...95% r.H. non condensing			
Life time expectation	74640h (8.5 years) at 25°C ambient full Load			
Overvoltage category	II			
Pollution degree	2 (IEC 664-1)			
Input / output isolation	4.2kVdc			
Input / ground isolation	2.2kVdc			
Output / ground isolation	0.75kVdc			
Safety Standards	- UL508 Listed - EN60950 (reference)			
EMC Emission	- EN55022:2010 (CISPR22) - EN55011:2009 /A1:2010 - EN61000-3-2:2014	- Class B - Class B - Class A		
EMC Immunity	- EN61000-4-2:2008 - EN61000-4-3:2006 /A2:2010 - EN61000-4-4:2012 - EN61000-4-5:2014 - EN61000-4-11:2004 /A1:2010	- Level 3 - Level 3 - Level 3 - Level 3 - Level 2		
Protection degree	EN60529:1989 /A:2013	IP20		
Vibration sinusoidal	IEC 60068-2-6:2007	(5-17.8Hz: ±1.6mm; 17.8-500Hz: 2g 2Hours / axis (X,Y,Z)		
Shock	IEC 60068-2-27:2008	(30g 6ms, 20g 11ms; 3 bumps / direction, 18 bumps total)		
Connection terminals	2.5mm², screw type pluggable (24...12AWG)			
Case material	Aluminum			
Approx. weight	0.45kg			
Size (W x H x D)	35.0 x 103.0 x 104.0mm			
Mounting Rail	IEC 60715/H15/TH35-7.5(-15)			