

Main Features

- Smallest 240 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 40mm wide aluminium enclosure.
- 24 Vdc output



Input Connection:

Single phase:

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

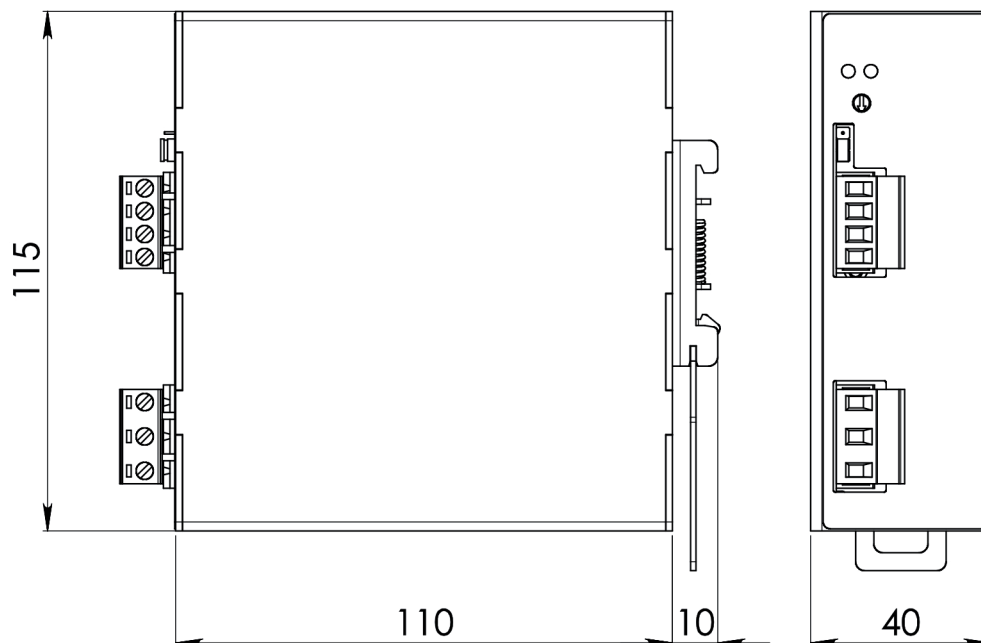
DC:

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

Output Connection:

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

Dimensions



TECHNICAL DATA

Model type	NPSM241-24 (P)	
OUTPUT DATA		
Rated voltage	24Vdc	
Adj. output voltage range	22...29Vdc	
Continuous current	10A	
Overload limit	15A	
Short circuit peak current	18A	
Load regulation	≤ 1%	
Ripple & Noise	< 260mVpp	
Hold up time	> 20ms	
User interface	<ul style="list-style-type: none"> ▪ DC OK green LED ▪ Overload red LED ▪ Current limitation mode jumper ▪ Dry contact (1A/30V) 	
Output Protections	<ul style="list-style-type: none"> ▪ Overload, short circuit, with constant current or hiccup mode (user settable) ▪ Thermal protection ▪ Input undervoltage lockout 	
Output overvoltage protection	> 33Vdc	
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		
U _{in} = 120Vac	2.4A	
U _{in} = 240Vac	1.2A	
Input DC current		
U _{in} = 110Vdc	2.6A	
U _{in} = 345Vdc	0.9A	
Inrush peak current	< 30A	
Internal protection fuse	Fuse 6.3AT/250Vac (not user replaceable)	
External protection on AC line	MCB 10A C curve It is strongly recommended to provide external surge arresters (SPD) according to local regulations.	
GENERAL DATA		
Efficiency	> 93%	
Dissipated power	< 19W	
Operating temperature	- 40°C...+ 70°C / overtemperature protection UL certificated up to 70°C Start-up type tested: - 40°C ¹	
Temperature derating	No Derating	
Storage temperature	- 40°C...+ 80°C	
Humidity	5...95% r.H. non condensing	
Life time expectation	221288h (25.2 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	<ul style="list-style-type: none"> ▪ UL508 Listed ▪ EN60950 (reference) 	
EMC Emission	<ul style="list-style-type: none"> ▪ EN55022:2010 (CISPR22) Class B ▪ EN55011:2009 /A1:2010 Class B ▪ EN61000-3-2:2014 Class A 	
EMC Immunity	<ul style="list-style-type: none"> ▪ EN61000-4-2:2008 Level 3 ▪ EN61000-4-3:2006 /A2:2010 Level 3 ▪ EN61000-4-4:2012 Level 3 ▪ EN61000-4-5:2014 Level 4 ▪ EN61000-4-11:2004 /A1:2010 Level 2 	
Protection degree	<ul style="list-style-type: none"> ▪ EN60529:1989 /A:2013 IP20 	
Vibration sinusoidal	<ul style="list-style-type: none"> ▪ IEC 60068-2-6:2007 (5-17.8Hz: ±1.6mm; 17.8-500Hz: 2g 2Hours / axis (X,Y,Z) 	
Shock	<ul style="list-style-type: none"> ▪ IEC 60068-2-27:2008 (30g 6ms, 20g 11ms; 3 bumps / direction, 18 bumps total) 	
Connection terminals	2.5mm ² , screw type pluggable (24...12AWG)	
Case material	Aluminum	
Approx. weight	0.600kg	
Size (W x H x D)	40.0 x 115.0 x 110.0mm	
Mounting Rail	IEC 60715/H15/TH35-7.5(-15)	