





Main Features

- *)* High efficiency and extremely compact size
-) Only 40mm width aluminum enclosure
- J Active PFC
-) Overload 150%
-) Constant current or hiccup mode limitation, user settable
-) Wide range of output voltage
-) Easy parallelable for power increase
- J Up to 70°C operating temperature with no derating

NPSM241 Series 240W High Performance Ultracompact DIN Rail Power Supply

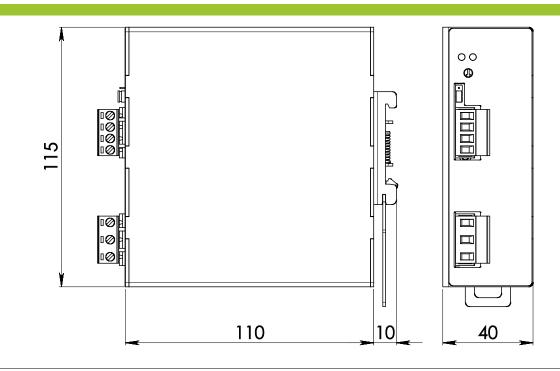


TECHNICAL DATA NPSM241-12 (P) NPSM241-24 (P) NPSM241-36 (P) NPSM241-48 NPSM241-72P Model typ OUTPUT DATA Rated voltage 12Vdc 24Vdc 36Vdc 48Vdc 72Vdc 12...15Vdc 22...29Vdc 32...40Vdc 45...55Vdc 70...85Vdc Adj. output voltage range 15A 10A 7.0A 5.0A 3.3A Continuous current Overload limit in constant current mode 17A 11A 7.5A 7.0A 4.0A Overload limit in hiccup mode (max. 5s) 20A 15A 10A 8.5A 5.5A Load regulation ≤ 2% ≤ 1% Ripple & Noise¹ ≤ 160mVpp ≤ 260mVpp ≤ 300mVpp ≤ 400mVpp ≤ 550mVpp Hold up time ≥ 25ms ≥ 20ms ≥ 15ms ≥ 20ms ≥ 15ms Overload, short circuit: Constant current or Hiccup mode (user settable) Thermal protection Protections Input undervoltage lockout Output overvoltage Output overvoltage protection ≥ 18Vdc ≥ 33Vdc ≥ 51Vdc ≥ 68Vdc ≥ 100Vdc DC OK - green LED OVERLOAD - red LED Status Signals DC OK - dry contact (NO, 24Vdc / 1A) . Possible for power or redundancy (with external ORing module) Parallel connection² P (models) - include internal ORing circuit **INPUT DATA** Nominal: 120...240Vac (UL certified) Input AC rated voltage Range: 90...264Vac Frequency 47...63Hz 110...345Vdc Input DC rated voltage 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 ≤ 45A Touch (leakage) current ≤ 0.6mA Internal protection fuse Fuse 6.3AT (not user replaceable) Fuse 10AT or MCB 10A C curve Recommended external protection It is strongly recommended to provide external surge arresters (SPD) according to local regulations **GENERAL DATA** Efficiency > 90% > 93% > 93% > 93.5% < 25W < 19W < 19W Dissipated power < 17W - 40°C...+ 70°C Operating temperature³ UL certified up to 70°C Derating No derating Storage temperature - 40°C...+ 80°C 5...95% r.H. non condensing Humidity Life time expectation 221'288h (25.2 years) at 25°C ambient full load Overvoltage category EN50178 ш . Pollution degree IEC60664-1 2 Protection Class . CLASS Т 4.2kVdc Input / output isolation Input / ground isolation 2.2kVdd 0.75kVdc Output / ground isolation UL508 (certified E356563) . Safety Standards⁴ EN60950 . (reference) EN50178 (reference) EN55011 (CISPR11) Class B . EMC Emission EN55022 (CISPR22) Class B EN61000-3-2 Class A . EN61000-4-2 Level 3 . EN61000-4-3 Level 3 EMC Immunity EN61000-4-4 Level 3 . EN61000-4-5 . Level 4 EN61000-4-11 Level 2 Protection degree . EN60529 IP20 Vibration sinuosoidal . IEC 60068-2-6 (5-17.8Hz: ±1.6mm; 17.8-500Hz: 2g 2hours / axis (X,Y,Z) IEC 60068-2-27 Shock . (30g 6ms, 20g 11ms; 3 bumps / direction, 18 bumps total)



Connection terminals	2.5mm ² , screw type pluggable (2412AWG)
Case material	Aluminum
Weight	0.60kg
Size (W x H x D)	40.0 x 115.0 x 110.0mm
 3) Start-up type tested: - 40°C, possible at nu 4) NPSM241-36 (P) is not UL508 certified. 	ode jumper on C.C. mode when connecting more units in parallel. minal voltage with load deration.
	in laboratory environment at 25°C and 240Vac / 50Hz, at nominal values, after minimum 5 minutes of operation. nal behaviour and start-up may change outside of the nominal rated input range. Contact factory for details. ier to improve the product.

DIMENSIONS



CONNECTION

