

NPSM962 - 960W, 1 Phase, High Performance, Ultracompact DIN Rail Power Supply

- High efficiency and compact size
- Only 80mm width aluminum enclosure
- Active PFC
- Overload 150%
- Constant current or hiccup mode limitation, user settable
- Easy parallelable for power increase
- Natural convection cooling



ULTRA
COMPACT

COMING
SOON!

For reference only

TECHNICAL DATA

	NPSM962-12	NPSM962-24	NPSM962-48	NPSM962-72
OUTPUT DATA				
Rated voltage	12Vdc	24Vdc	48Vdc	72Vdc
Adj. output voltage range	12...15Vdc	22...29Vdc	45...55Vdc	70...85Vdc
Continuous current (@230Vac input)	40A		20A	13.3A
Overload limit in constant current	44A		22A	15A
Overload limit in hiccup (max. 5s)	60A		30A	20A
Load regulation	≤ 1%			
Ripple and noise	≤ 100mVpp			
Hold up time	≥ 20ms			
Protections	<ul style="list-style-type: none"> • Overload/short circuit: with constant current or hiccup mode (user settable) • Thermal protection • Output overvoltage 			
Status signals	<ul style="list-style-type: none"> • DC OK - green LED • ALARM - red LED • DC OK - dry contact (NO, 1A / 24Vdc) 			
Parallel connection	Possible for power or redundancy (with external ORing module)			
INPUT DATA				
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	2.5A		5A	
Vin = 240Vac	2.5A		5A	
Input DC rated current				
Vin = 300Vdc	1.8A		3.5A	
Inrush peak current	≤ 35A			
Touch (leakage) current	≤ 3mA			
Internal protection fuse	Fuse 16AT (not user replaceable)			
Recommended external protection	Fuse 10AT or MCB 10A C curve / SPD			
GENERAL DATA				
Efficiency	> 93%		> 94%	
Dissipated power	< 36W		< 62W	
Operating temperature	- 40°C...+ 70°C			
Derating	Automatic power derating for Vin < 180Vac			
Lifetime expectancy	70'080h (8 years) 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 (reference), EN60950 (reference), CE marking			
EMC Standards	EN61000-3-2, EN61000-6-1, EN61000-6-4			
Protection degree	IP20 (EN60529)			
Connection terminals	1.5...6mm ² , screw type (16...10AWG) for input 6...16mm ² , screw type (10...6 AWG) for output			
Case material	Aluminum			
Weight	1.3kg			
Size (W x H x D)	80 x 127 x 137.5mm			