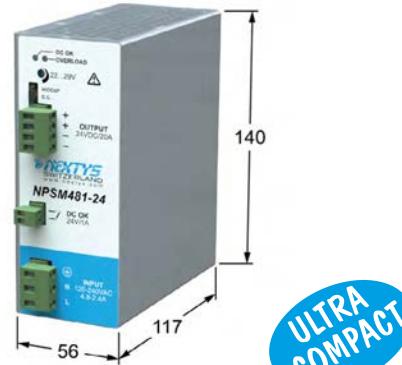


72V DIN Rail Power Supply 480 Watt ASINPSM481-72

- High efficiency and extremely compact size
- Only 56mm width aluminum enclosure
- Active PFC
- Overload 150%
- Constant current or hiccup mode limitation, user settable
- Up to 60°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"



For reference only

TECHNICAL DATA

| | NPSM481-24 (P, H) | NPSM481-36 (P, H) | NPSM481-48 (P, H) | NPSM481-72 (P, H) |
|--|--|--------------------------|--------------------------|--------------------------|
| OUTPUT DATA | | | | |
| Rated voltage | 24Vdc | 36Vdc | 48Vdc | 72Vdc |
| Adj. output voltage range | 22...29Vdc | 32...40Vdc | 45...55Vdc | 70...85Vdc |
| Continuous current | 20A | 14A | 10A | 6.7A |
| Overload limit in constant current | 21A | 16A | 12A | 7A |
| Overload limit in hiccup (max. 5s) | 30A | 20A | 17A | 12A |
| Load regulation | ≤ 1.5% | ≤ 1% | | ≤ 0.5% |
| Ripple and noise | ≤ 150mVpp | | ≤ 200mVpp | ≤ 350mVpp |
| Hold up time | ≥ 25ms | ≥ 20ms | | ≥ 25ms |
| 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 | | | |
| Status signals | <ul style="list-style-type: none"> DC OK - green LED OVERLOAD - red LED DC OK - dry contact (NO, 24Vdc / 1A) | | | |
| Parallel connection | <ul style="list-style-type: none"> Possible for power or redundancy (with external ORing module) P (models) - include internal ORing circuit | | | |
| INPUT DATA | | | | |
| Input AC rated voltage | Nominal: 120...240Vac (range 90...264Vac) 47...63Hz | | | |
| Frequency | | | | |
| Input DC rated voltage | 110...345Vdc | | | |
| Input AC rated current | | | | |
| Vin = 120Vac | 4.8A | 5.5A | | 4.8A |
| Vin = 240Vac | 2.4A | 2.8A | | 2.4A |
| Input DC rated current | | | | |
| Vin = 110Vdc | 4.9A | 5.3A | | 4.9A |
| Vin = 345Vdc | 1.7A | 1.9A | | 1.7A |
| Power factor correction | Active / > 0.9 | | | |
| Inrush peak current / I ² t | ≤ 23A / 0.56A ² s | | | |
| Touch (leakage) current | ≤ 0.9mA | | | |
| Internal protection fuse | Fuse 8AT (not user replaceable) | | | |
| Recommended external protection | Fuse 10AT or MCB 10A C curve / SPD | | | |
| GENERAL DATA | | | | |
| Efficiency | > 93% | | > 94% | |
| Dissipated power | < 36.5W | < 32.5W | | < 31W |
| Operating temperature | - 40°C...+ 70°C (UL certified up to 50°C at 120Vac or up to 60°C at 240Vac) | | | |
| Derating | - 7.6W/°C over 50°C at 120Vac - 7.2W/°C over 60°C at 240Vac | | | |
| Lifetime expectancy / MTBF | 167'953h (19.1 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 | | | |