

2990101120

XP Power Supply, 48Vdc 120W



Description

- ✓ Up to 90% Efficiency
- ✓ Wide Adjustment Range
- ✓ Parallel Function
- ✓ DC Standby Versions
- ✓ Full Power from -40 °C to +60 °C
- ✓ Connector Options

Specifications

INPUT

| | |
|-----------------------|---|
| Input Voltage | 90-132/180-264 VAC auto select 210-375 VDC |
| Input Frequency | 47-63 Hz |
| Input Current | 115 VAC 2.20 A / 230 VAC 0.83 A |
| Inrush Current | 24/48 A at 115/230 VAC |
| Power Factor | 0.7 typical |
| Earth Leakage Current | 0.8 mA max |
| Input Protection | T3.15A 250 VAC |

OUTPUT

| | |
|------------------------|---|
| Output Voltage | 48 V |
| Output Voltage Trim | 45.0-55.0 V |
| Initial Set Accuracy | ±1% |
| Minimum Load | No minimum load required |
| Start Up Delay | <1 s (may increase at low temperature extremes) |
| Start Up Rise Time | <150 ms |
| Hold Up Time | 25/30 ms at 115/230 VAC |
| Line Regulation | ±0.5% max |
| Load Regulation | ±1% (±5% for units in parallel) |
| Transient Response | 4% max deviation recovering to within 1% in 2 ms for a 50% load change |
| Ripple & Noise | 50 mV pk-pk (DNR120) 20 MHz bandwidth (may increase at low temperature extremes) |
| Overvoltage Protection | Output clamps at 125-140% Vnom auto recovery |
| Overload Protection | 105-145% constant current auto recovery |
| Temp. Coefficient | ±0.03%/°C |

GENERAL

| | |
|---------------------|--|
| Efficiency | 87% |
| Isolation | 3000 VAC Input to Output, 1500 VAC Input to Ground, 500 VAC Output to Ground |
| Switching Frequency | 80kHz |
| Signals | DC ON indicator Green LED, DC LOW indicator Red LED, DC OK: 24 V and standby models |
| MTBF | 430 kHrs typical Bellcore, Issue 6 at +40 °C, GB |
| DIN Rail | Compatible with TS35/7.5 or TS35/15 |

ENVIRONMENTAL

| | |
|-----------------------|---|
| Operating Temperature | DNR120: -35 °C to +70 °C, derate linearly from +60 °C at 2.5%/°C, start up at -30 °C |
| Cooling | Convection-cooled with 25mm free space all sides |
| Operating Humidity | 20-95% RH non- condensing |
| Storage Temperature | -40 °C to +85 °C |
| Shock | 15 g, 11 ms, 3 axes, 6 faces, 3 shocks per face |
| Vibration | 2 g, 10 Hz to 500 Hz, along X, Y & Z axis, 60 min/axis, mounted on rail |

EMC & SAFETY

| | |
|----------------------|---|
| Emissions | EN55022 class B conducted & radiated |
| Harmonic Currents | EN61000-3-2 class A |
| Voltage Flicker | EN61000-3-3 |
| ESD Immunity | EN61000-4-2 level 4 Perf Criteria A |
| Radiated Immunity | EN61000-4-3 level 3 Perf Criteria A |
| EFT/Burst | EN61000-4-4 level 4 Perf Criteria A |
| Surge | EN61000-4-5 installation class 3 Perf Criteria A |
| Conducted Immunity | EN61000-4-6 level 3 Perf Criteria A |
| Magnetic Field | EN61000-4-8 level 4 Perf Criteria A |
| Dips & Interruptions | EN61000-4-11 30% 10 ms, 60% 100 ms, 100% 5000 ms Perf Criteria A, A, B |
| Safety Approvals | EN60950-1 UL508 UL60950-1,cUL60950-1 Pollution Degree 2, |
| | CE Mark, UL60950-1 Overvoltage Category II, UL508 Overvoltage Category III |
| | ANSI/ISA 12.12.01. (Class 1, Division 2, Groups A,B,C and D) |

Used With



FCDC1

Flowire Ethernet Converter -
DC Voltage This product has
been replaced by 1008080310
FCDC3 Flowire Ethernet
Converter