

## PoE Power Supply : 48V, 240Watts



- Rugged Design for Industrial Applications
- Up to 89% Efficiency
- Full Power to +60 °C
- Wide Adjustment Range

## Specification

### Input

Input Voltage	• 85-264 VAC, 90-375 VDC
Input Frequency	• 47-63 Hz
Input Current	• 1.1A (115VAC), 0.59A (230VAC)
Inrush Current	• 4.0/1.5 A at 115/230 VAC
Power Factor	• 0.7 typ
Earth Leakage Current	• 0.8 mA max
Input Protection	• Internal fuse T6.3A, 250 VAC

### Output

Output Voltage	• 48 Vdc
Output Voltage Trim	• 47 Vdc to 56 Vdc
Output Current	• 5.0 A
Output Power	• 240 W
Minimum Load	• No minimum load required
Start Up Delay	• <1 s (may increase at low temperature extremes)
Start Up Rise Time	• <150 ms
Line Regulation	• $\pm 0.5\%$ max
Load Regulation	• $\pm 1.0\%$ max
Transient Response	• 4% max deviation recovery to within 1% in 2 ms for a 50% load change
Ripple & Noise	• 50 mV pk-pk, 20 MHz bandwidth (may increase at low temperature extremes)
Overvoltage Protection	• Output clamps at 120-145% Vnom, auto recovery
Overload Protection	• 125-140% Vnom, auto recovery
Short Circuit Protection	• 105-145% constant current, auto recovery
Temperature Coefficient	• $\pm 0.03\%/^{\circ}\text{C}$

### General

Efficiency	• 89%
Isolation	• 3000 VAC Input to Output, 1500 VAC Input to Ground, 500 VAC Output to Ground
Switching Frequency	• 40 KHz
Signals	• DC ON indicator Green LED, DC LOW indicator Red LED
MTBF	• 430 kHrs typical Bellcore, Issue 6 at +40 °C, GB
DIN Rail	• Compatible with TS35/7.5 or TS35/15

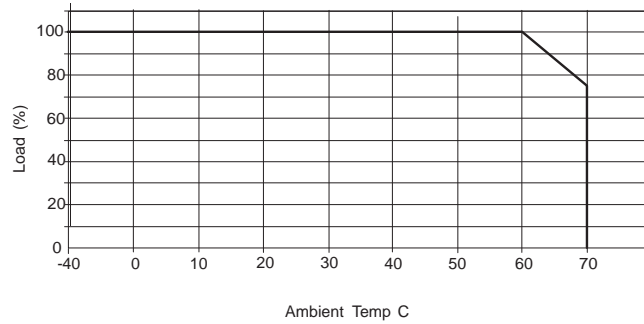
### Environmental

Operating Temperature	• -40°C to +70°C, derate linearly from 60 °C (see derating curve)
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, X, Y & Z axis, 3 shocks/axis in both directions
Vibration	• 2 g, 10 Hz to 500 Hz, along X, Y & Z axis, 60 mins/axis, mounted on rail

### EMC & Safety

Emissions	• EN55022, level 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
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)

## Derating Curve



## Mechanicals

