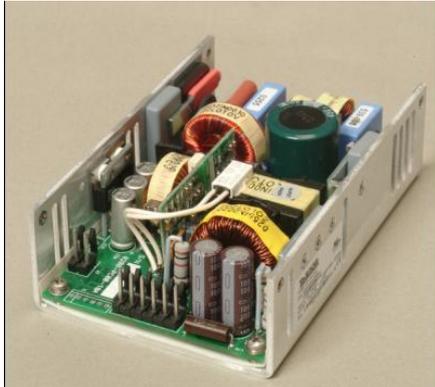




eF175-148 – 200W Open Frame Single Output AC/DC Switching Power Supply



Product Description

Industry's smallest open frame single output AC/DC switcher delivering 200W continuous Power with an option for built-in "O-Ring" diodes. The unit is built in a 1U 3" X 5" footprint

**Telkoor Part Number:
900-0448-0000**

Product Specifications:

Input

AC Input Voltage	85-265 VAC
Input Inrush Current	60A maximum, cold start at 25°C, 250VAC
Active Power Factor Correction	0.98 typical at 230VAC, full load 0.99 typical at 115VAC, full load
Efficiency @ 230VAC Full Load	80% typical at 230VAC, full load
Efficiency @ 115VAC Full Load	75% typical at 115VAC, full load
Input Line Protection	Internal Line Fuse IEC type 5A 250Vac Normal BLO
Hold-up Time	16msec minimum at any input voltage in range and full load

Output

V1 / Current	+48VDC / 4.2A
Total Output Power	200Watt
Line Regulation	± 0.2% for Vin (Min) to Vin (Max)
O-Ring option	Yes
Hot-Swap option	N/A
Remote Sense (open sense lines protected)	Outputs are internally sensed at the output connector
Transient Response	±5% Max. Deviation for load change of 25% to 75%, at slew rate of 1A/usec, recovery time less then 500Msec

Over-Voltage Protection	Outputs shut down at 130% of V1 Nominal, AC input must Recycled to reset
Short Circuit Protection	Yes
Temperature Protection	Shutdown due to excessive internal temperature 90 to 97°C (base plate) automatic recovery
Load Regulation	
V1	±2% for load changes from zero to full load
Min. Load Requirement	No
Overshoot / Undershoot at Turn-on	Less than 1% at turn ON and OFF
Turn-on Delay	2 sec. Maximum
Initial Setting Accuracy	Factory pre-set at ±1%
Voltage Set Point (Internal trim-pot)	V1 ± 5%
Ripple @ Noise with 20MHz Bandwidth measured across 47µF Load Capacitor Paralleled with 1µF Ceramic Cap.	
V1	150mV P-P 20MHz BW
Overload Protection	
V1	130% Max.

Environmental

Temperature	
Operation	-5°C to +50°C (de-rating linearly to 70 °C with 50% de-rating).
Storage	-25°C to +85°C.
Cooling	100W free convection cooling (base plate cooling). 200W continuous forced air- cooling (250lfm, or 15CFM min.)
Humidity	Maximum 5% to 95% RH non-condensing
Altitude	Operating 10,000 ft. Non- operating 40,000 ft
Vibration	Three orthogonal axes at 1 octave/min, 5 min dwell at four major resonances at 0.75G peak, 5Hz to 500Hz
Conducted & Radiated Emission	FCC CLASS B, CISPR 22 CLASS B, EN55022 CLASS B – With an external input line filter
Surge	EN61000-4-5 - 2KV common mode and 1KV differential mode
MTBF	300,000 hours minimum per BELCOR 332,issue 6 specification @30 degrees C (Max. junction temperature 110°C, Capacitors 105°C)
Dielectric Isolation	
Input to Case	1500VAC.
Input to Output	3000VAC
Output to Case	100VDC

Safety, Regulations and EMI Specifications

Safety Approvals	UL 60950 , CSA C22.2 -234, LEVEL 3, EN-60950 , CE - MARK
ESD Susceptibility	EN61000-4-2 level 4 8KV air +4KV CONTACT DISCHARGE, performance criteria B
Input Reflected Ripple	FCC CLASS B, CISPR 22 CLASS B, EN55022 CLASS B with external line filter
Radiated Susceptibility	EN61000-4-3 80-1000Mhz 3V/m, AM 80% (1KHz), criteria A
EFT / Burst	EN61000-4-4 level B
Input Surge	EN61000-4-5 2KV common mode and 1KV differential mode
Conducted Disturbance	EN61000-4-6 3VRMS, 80% A.M. BY 1kHz
Power frequency magnetic field	EN61000-4-8 3A /m at 50Hz, performance criteria A
Immunity to voltage Dips	30% reduction for 10mSec –Criteria B, 60% For 100mSec. Criteria C, 95% reduction for 5000mSec Criteria C

Monitoring Command & Control

Inhibit	N/A
Power OK	N/A
Input AC Connector	3 Pin Molex 26-48-1055
Current Share	N/A
Output Connectors	V1 (J2) 6 Pin Molex Type 26-48-10xx

Mechanical Dimensions

Size	127mm x 84mm x 38.0mm
Weight	650 Gr.

Outline Drawing

All characteristics are subject to change without prior notice.

