

eF175-205 – 200W Open Frame Dual Output AC/DC Switching Power Supply



Product Description

Industry's smallest open frame dual 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: 900-0205-0000

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
V1 / Current	+5VDC / 30A

Output

V1 / Current	+5VDC / 30A
V2 / Current	+12VDC / 5A
Total Output Power	200Watt
Line Regulation	\pm 0.2% for Vin (Min) to Vin (Max)
O-Ring option	Yes
Hot-Swap option	Optional internal O-ring diode in efS175-205 model
Remote Sense (open sense	Available on V1
lines protected)	
Transient Response	±5% Max. Deviation for load change

of 25% to 75% , at slew	
1A/usec, recovery time I	ess then
500Msec	
Over-Voltage Protection outputs shut down at 12	
nominal, AC input must	Recycled to
reset.	
Short Circuit Protection Yes	
Temperature Protection shutdown due to excess	ive internal
temperature 90 to 97°C	(base plate)
automatic recovery	
Load Regulation	
V1 \pm 2% for load change from the second	om zero to
full load	
V2 \pm 4% for load change from the second	om 10% to
100% load	
Overshoot / Undershoot at Less than 1% at turn ON	I-OFF
Turn-on	
Turn-on Delay2 sec. Maximum	
Initial Setting Accuracy V2 Factory pre-set at ±1	%
Voltage Set Point (Internal V1 ± 5%	
trim-pot)	
Ripple @ Noise with 20MHz Bandwidth measured	across
47µF Load Capacitor Paralleled with 1µF Ceramic	Cap.
V1 75mV P-P	
V2 120mV	
Overload Protection	
V1 & V2 V1 105 to 130% of Im, c	onstant
current limit, automatic r	ecovery (V2
SD)	
V2 110 to 175% of Im (conctant
V2 110 to 175% of Im o	JUNSIANI

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- condensating
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	MEETS 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
Radiated Susceptibility	EN61000-4-3 80-1000Mhz 3V/m,
	AM 80% (1KHz), criteria A
EFT / Burst	EN61000-4-4
Input Surge	EN61000-4-5 2KV common mode
1	and 1KV differential mode
Conducted Disturbance	EN61000-4-6 3VRMS, 80% A.M. BY
	1kHz
Power frequency magnetic	EN61000-4-8 3A /m at 50Hz,
field	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

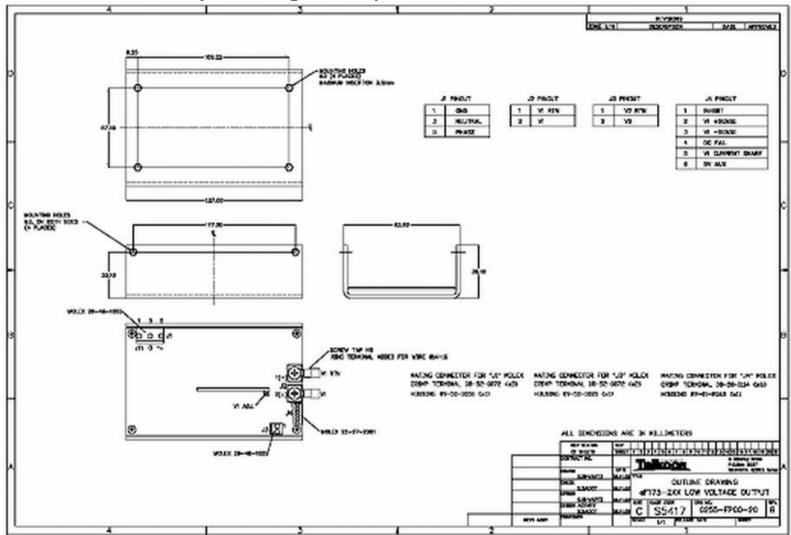
Inhibit	Active low, all output shut down
Power OK	Open collector, active low when any of V1, V2 outputs drop 10% below rated output.
Input AC Connector	Molex 26-48-105
Current Share	Optional - V1 N+1 single wire. V2 Natural current sharing
Output Connectors	V1 two #10 Lug (Provided with the unit) Molex 26-48-xxxx

Mechanical Dimensions

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

Outline Drawing

All characteristics are subject to change without prior notice.



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