

eFA400-148

Power Supplies Ltd.
TelkooR

400 Watt Open Frame Single Output AC/DC Switching power supply

Product Description

The Industry's smallest open frame single output AC/DC switcher delivering 400W continuous power with active PFC. The unit is built in a 1U configuration.

TelkooR Part Number:

900-4046-0000

Product Specifications:

Input

AC Input Voltage	85-264VAC Wide Range
Input Inrush Current	< 50Amp @ 115VAC cold Start
Input Reflected Ripple	FCC 68 part 15 Class B wth external line filter
Active Power Factor Correction	>0.96 Typical @ 110/220VAC input @ Full Load
Efficiency @ 230VAC Full Load	86% Typical
Efficiency @ 115VAC Full Load	82% Typical
Input Line Protection	6.3A 250VAC IEC Type
Hold-up Time	16mSec. @ Full Load

Output

V1/Current	+48VDC / 8.3A
Aux V/Current	+5VDC / 5mA
Total Output Power	400W
Line Regulation	+/- 0.1% for Vin (min.) to Vin (max.)
Oring Option	N/A
Hot-Swap	N/A
Current Share	N/A
Remote Sense (Open sense lines protected)	Yes
Long Term Stability	Better than 0.2%
Transient Response	Better than 5% For 50% Step load

Over-Voltage Protection	120% Typical' Latched shut-down
Short Circuit Protection	Yes
Temperature Protection	Units shuts down when internal Heat-Sink Temp. >90C Auto recovery
Load Regulation	
V1&V2	+/-1% Max.
Min. Load Requirement	None
Overshoot/Undershoot at Turn-On	Less Than 4%
Turn-On Delay	2 Sec. Max.
Initial Setting Accuracy	+/-0.4% Max. For V1 & V2
Voltage Set point (Internal trim-pot) V1/V2	+/- 5%
Ripple @ Noise with 20MHz Bandwidth mesured across 10uF Load Capacitor Paralleled with 0.1uF Ceramic Cap.	
V1	150mV p-p Max.
Overload Protection	
V1 & V2	125% Type. of Max output load

Enviromental

Temperature

Operation	-5C to +50C. Linear De-Rating of 2.5% per 1Deg. C up to +71C
Storage	-25C to +85C
Cooling	Forced Air Cooling 15CFM
Humidity	Up to 95% RH Non-Condensing
Shock & Vibration	0.75G Peak 5Hz - 500Hz
Conducted & Radiated Emmision	EN55022 CLASS B (with external line filter) & EN61000-4-3
Surge	EN61000-4-5'
MTBF	> 300'000 Hours

Dialectric Isolation

Input to Case	> 1500VAC
Input to Output	3000VAC
Output to Case	500VDC

Safety, Regulations and EMI Specifications

Safety Approvals	c/UL 60950' EN-60950 & CE Marking
ESD Susceptibility	Meets EN61000-4-2 8Kv Air' 4Kv contact

Radiated Susceptibility	30-1000MHz FCC Part 15' Subpart B CLASS B
EFT/Burst	IEC61000-4-4
Input Surge	IEC61000-4-5
Conducted Disturbance	IEC61000-4-6
Power frequency magnetic field	IEC61000-4-8
Immunity for voltage Dips	IEC61000-4-11

Monitoring Command & Control

Remote	ON/OFF
Inhibit	ACTIVE Low -Output shut down
Power OK	Open Collector ACTIVE Low - Any output drops below 10%
Input AC Connector	"Molex 3 Pin' 0.2" 41695 Series"
Current Share	N/A
Remote Sense	V1 on J3
Output Connectors V1/V2	10 - 32 UNF Studs' Molex connector - optional
Aux. Output	HIROSE DF11-10DP-2DSA

Mechanical Dimesions

Size in cm (Inch)	"182 X 98 X 38 (6.8" X 3.85" X 1.5")"
Weight in Grams (Oz)	750gr. Max (27 oz.)
Cover	Boxed Version Available

Telkoor Document Number

Telkoor Document Number	4046-DOC1-10
--------------------------------	--------------

Outline Drawing

All characteristics are subject to change without prior notice.