

# eFA400-124

**Telkoor** Power Supplies Ltd.

## 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:**

**900-4056-0000**

### Product Specifications:

#### Input

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

#### Output

<b>V1/Current</b>	+24VDC / 16.6A
<b>Aux V/Current</b>	+5VDC / 20mA
<b>Total Output Power</b>	400W
<b>Line Regulation</b>	+/- 0.1% for Vin (min.) to Vin (max.)
<b>Oring Option</b>	N/A
<b>Hot-Swap</b>	N/A
<b>Current Share</b>	N/A
<b>Remote Sense (Open sense lines protected)</b>	Yes
<b>Long Term Stability</b>	Better than 0.2%
<b>Transient Response</b>	Better than 5% For 50% Step load

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

## Enviromental

### Temperature

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

### Dialectric Isolation

<b>Input to Case</b>	> 1500VAC
<b>Input to Output</b>	3000VAC
<b>Output to Case</b>	500VDC

## Safety, Regulations and EMI Specifications

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

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

## Monitoring Command & Control

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

## Mechanical Dimesions

<b>Size in cm (Inch)</b>	"183 X 98 X 38 (6.8" X 3.85" X 1.5")"
<b>Weight in Grams (Oz)</b>	750gr. Max (27 oz.)
<b>Cover</b>	Boxed Version Available

## Telkooor Document Number

<b>Telkooor Document Number</b>	4056-DOC1-10
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## Outline Drawing

All characteristics are subject to change without prior notice.