

eFA400-112

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:

900-4036-0000

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 | +12VDC / 33A |
| 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 |

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| 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 Capcitor Paralleled with 0.1uF Ceramic Cap. | |
| V1 | 120mV p-p Max. |
| Overload Protection | |
| V1 & V2 | 125% Type. of Max output load |

Enviromental

Temperature

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|--|--|
| 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

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

Safety, Regulations and EMI Specifications

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|---------------------------|--|
| 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

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|--------------------------------|--|
| 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 |
| Aux. Output | HIROSE DF11-10DP-2DSA |

Mechanical Dimesions

| | |
|-----------------------------|---------------------------------------|
| Size in cm (Inch) | "181 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

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|--------------------------------|--------------|
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Outline Drawing

All characteristics are subject to change without prior notice.