

DP306-124

Telkooor Power Supplies Ltd.

350 Watt Open Frame Single Output DC/DC Switching power supply

Product Description

The Industry's smallest open frame single output DC/DC switcher delivering 350W continuous power. The unit is built in a 1U configuration.

Telkooor Part Number:
900-3456-0000

Product Specifications:

Input

| | |
|-------------------------------|--------------------------|
| DC Input Voltage | 36-72 VDC |
| Input Inrush Current | 20Amp Max. @ 48VDC Input |
| Input Reflected Ripple | FCC 68 part 15 Class B |
| Efficiency @ 48/24VDC | 86% @ 48VDC |
| Input Line Protection | 15A 125VAC IEC Type |

Output

| | |
|--|---|
| V1/Current | +24VDC / 14.5A |
| Total Output Power | 350W |
| 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 |
| 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. |
| 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 230LFM |
| Humidity | Up to 95% RH Non-Condensing |
| Shock & Vibration | 0.75G Peak 5Hz - 500Hz |
| Conducted & Radiated Emmision | EN55022 CLASS B |
| Surge | EN61000-4-5' |
| MTBF | > 300'000 Hours |

Dialectric Isolation

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

Safety, Regulations and EMI Specifications

| | |
|---------------------------------------|---|
| Safety Approvals | EN-60950' c/UL60950 & CE Marking |
| ESD Susceptibility | Meets EN61000-4-2 8Kv Air' 4Kv contact |
| Radiated Susceptibilty | 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 - All outputs shut down |
| Power OK | Open Collector ACTIVE Low - Output drops below 10% |
| Input DC Connector | 3 Position Terminal block |
| Current Share | N/A |
| Remote Sense | V1 on J3 |
| Output Connectors V1/V2 | 10 - 32 UNF Studs |
| Aux. Output | HIROSE DF11-10DP-2DSA |

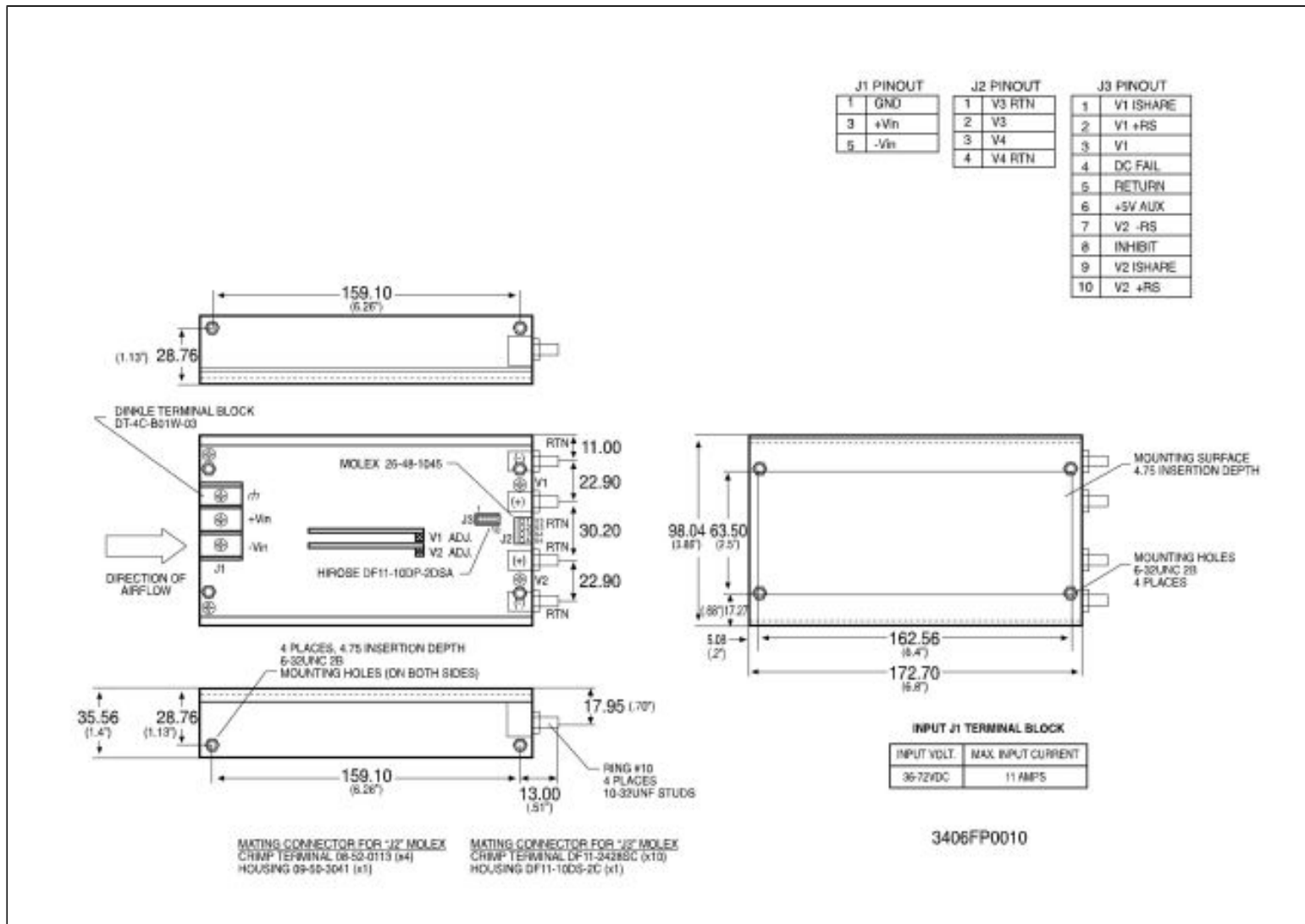
Mechanical Dimesions

| | |
|-----------------------------|--|
| Size in cm (Inch) | "173 X 98 X 35.5 (6.8" X 3.85" X 1.4)" |
| Weight in Grams (Oz) | 750gr. Max (27 oz.) |
| Cover | Boxed Version Available |

Telkoor Document Number

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|--------------------------------|--------------|
| Telkoor Document Number | 3456-DOC1-10 |
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Outline Drawing



All characteristics are subject to change without prior notice.