

DPO306-148

Telkoor 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 with built in "Oring" diodes. The unit is built in a 1U configuration."

Telkoor Part Number:
900-3446-0000

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	+48VDC / 7.2A
Total Output Power	350W
Line Regulation	+/- 0.1% for Vin (min.) to Vin (max.)
Oring Option	Yes
Hot-Swap	Yes
Current Share	Yes
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 +/- 5%
(Internal trim-pot) V1/V2

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

Dielectric 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 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 - All outputs shut down

Power OK Open Collector ACTIVE Low - Output drops below 10%

Input DC Connector 3 Position Terminal block

Current Share Yes

Remote Sense V1 on J3

Output Connectors V1/V2 10 - 32 UNF Studs

Aux. Output HIROSE DF11-10DP-2DSA

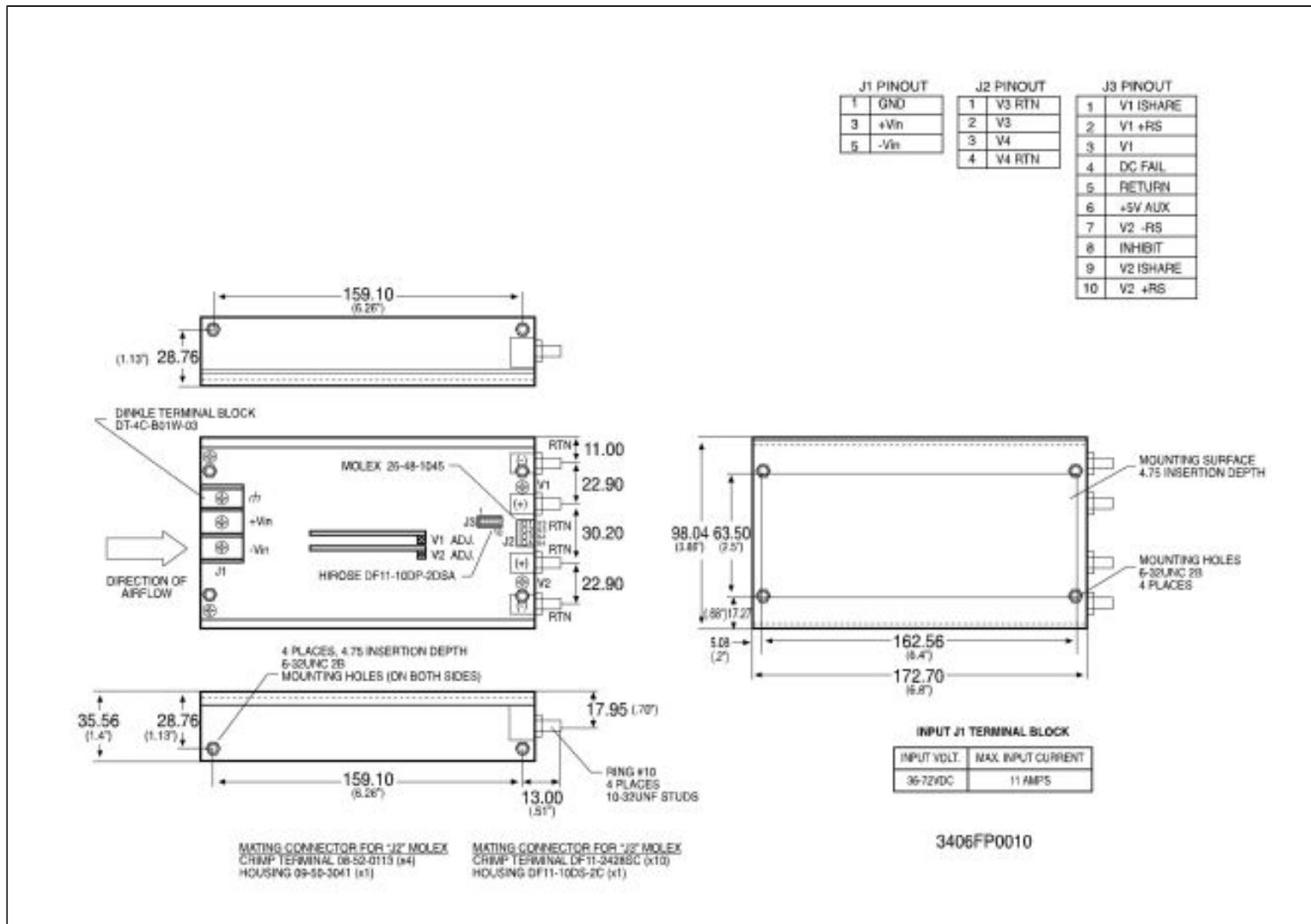
Mechanical Dimensions

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

Telkooor Document Number

Telkooor Document Number	3446-DOC1-10
---------------------------------	--------------

Outline Drawing



All characteristics are subject to change without prior notice.