

DPO306-112

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:

900-3436-0000

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	+12VDC / 29A
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 (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

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

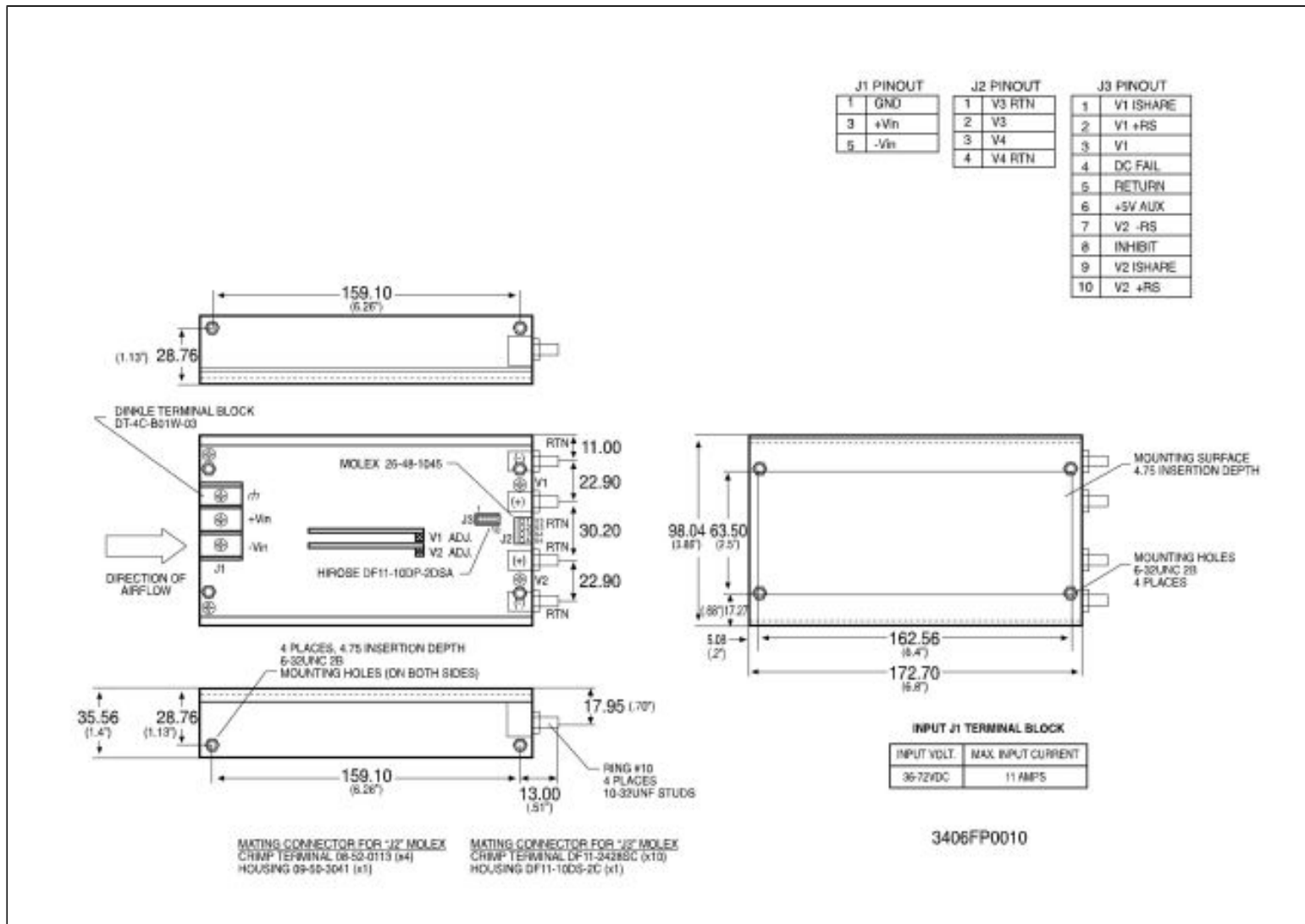
Mechanical Dimesions

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

Telkooor Document Number

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Outline Drawing



All characteristics are subject to change without prior notice.