

PS2100 - StrongBox Cassette

Telkoor Power Supplies Ltd.

48VDC 600W Front End Cassette with an I2C option available

Product Description

"Industry's highest power density front end delivering 1800W in a 1U 19" Rack frame. 3 plug-in cassettes enable 1:1 or N+1 redundancy configuration. Hot swap and parallel powering enables higher output power configuration."

Telkoor Part Number:

900-2100-0000

Product Specifications:

Input

AC Input Voltage	85 - 265 VAC Wide Range Single Phase
Input Inrush Current	50 Amp. Max.' Cold Start @ 25C' 250VAC
Input Reflected Ripple	FCC-68 Part 15 & EN55022 Class-B
Active Power Factor Correction	0.98 Typical @ 230VAC and 115VAC Full Load
Efficiency @ 230VAC Full Load	88%
Efficiency @ 115VAC Full Load	85%
Input Line Protection	10A 250VAC Fast Action Fuse
Hold-up Time	20mSec Min. @ 110VAC and Full Load

Output

V1/Current	48VDC / 12.5A
V2/Current	N/A
V3/Current	N/A

V4/Current	N/A
Aux V/Current	+5VDC / 30mA
Total Output Power	600W
Line Regulation	+/- 0.2% for Vin (Min.) to Vin(Max.).
Oring Option	For V1 Main output
Hot-Swap	Yes
Current Share	Single wire on V1
Remote Sense (Open sense lines protected)	Yes On V1
Long Term Stability	0.1% over 10 Hours after 10 Min. Warm-Up
Transient Response	For a step Load of 50%max Load peak transient < 5%. & output Recovers to 1% in Less than 0.5mSec.
Over-Voltage Protection	110%-125% on V1 With Latched shut-down
Short Circuit Protection	Available On V1 & Vaux.
Temperature Protection	Excess Temp. Shutdown When Internal Heat-Sink Temp. >90Deg C . Auto recovery

Load Regulation

V1&V2	+/- 0.5% for load change from zero to full load
V3&V4	N/A
Min. Load Requirement	None
Overshoot/ Undershoot at Turn-On	Less than 1%
Turn-On Delay	Less than 2 Sec.
Initial Setting Accuracy	+/-1%
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	150 mV p-p Max.
V2	N/A
V3 & V4	N/A

Overload Protection

V1 & V2	110%-125% of Imax.
V3	N/A
V4	N/A

Environmental

Temperature

Operation	-5C to +50C. Linear de-rating to +70C @ 2.5% Per Degree C
Storage	-40C to + 85C
Cooling	Cooling Via internal Fans - Front to Back
Humidity	Up to 95% RH Non-Condensing
Shock & Vibration	Storage: EN 300 019-2-1 Storage class 1.2' EN 300 019-2-2 Transportation class 2.3' EN 300 019-2-3 Use class 3.3
Conducted & Radiated Emmission	EN55022 Class-B and EN61000
Surge	Per EN61000-4
MTBF	Better Than 375000 Hours Per BellCore standard B332 Gb @ 50C

Dialectric Isolation

Input to Case	1500VAC
Input to Output	3000VAC
Output to Case	2100VDC

Safety, Regulations and EMI Specifications

Safety Approvals	UL60950 & EN60950 cULus & CE Marking
Dielectric Withstand Voltage	4200VDC Input to Output' 1500VAC Input to Chassis Ground
ESD Susceptibility	EN61000-4-2 4Kv Contact 8Kv Air
Radiated Susceptibility	EN61000-4-3 10V/m
EFT/Burst	EN61000-4-4 1Kv
Input Surge	EN61000-4-5 1Kv L-L 2Kv L-Gnd
Conducted Disturbance	EN61000-4-6 3Vrms
Power frequency magnetic field	EN610000-4-8 1A/m
Immunity for voltage Dips	EN61000-4-14

Monitoring Command & Control

Inhibit	Active Low- V1 Shuts Down Vaux remains On
Power OK	Open Collector - Active Low For V1 failure
AC in Range	LED ON for AC In-Range (Green)

Output in Range LED ON for DC Out-Of-Range (Red)

I2C Bus Optional - For Static and Dynamic Parameters

Input AC Connector IEC-320 Filtered in front

Current Share Single wire on V1

Remote Sense Yes On V1

Output Connectors V1/V2 DIN H-15 (ERNI P/N 413638)

Output Connectors V3/V4 N/A

Aux. Output Z-Pack 30 Pin 5 Rows (FCI P/N HM1F51FAR0006H6)

I2C Data Bus Optional - For Static and Dynamic Parameters

Mechanical Dimesions

Size in cm (Inch) "331.5mm x 129mm x 44.3mm (13.5"x1/3 19"x1U)"

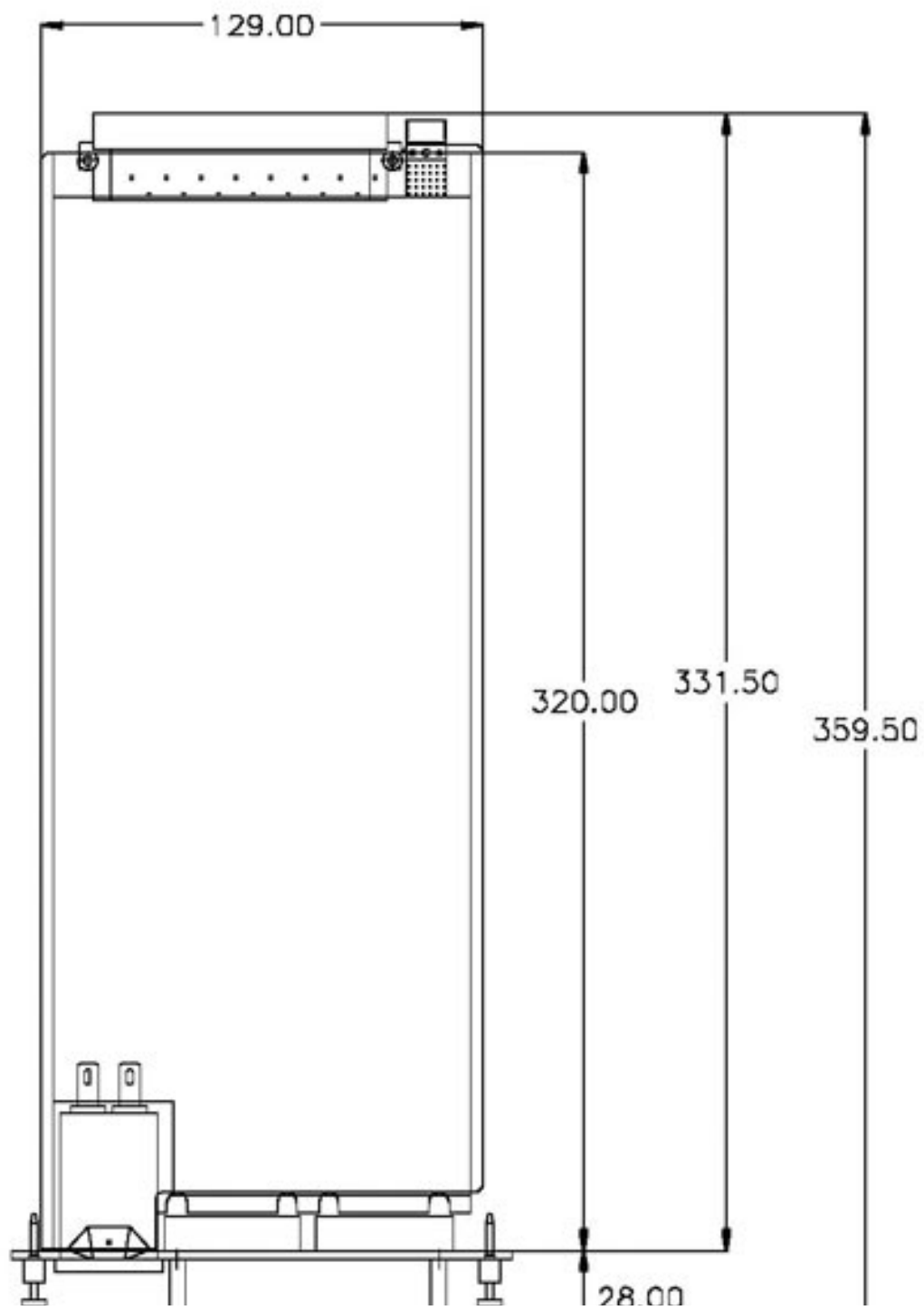
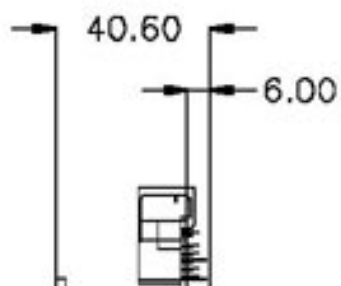
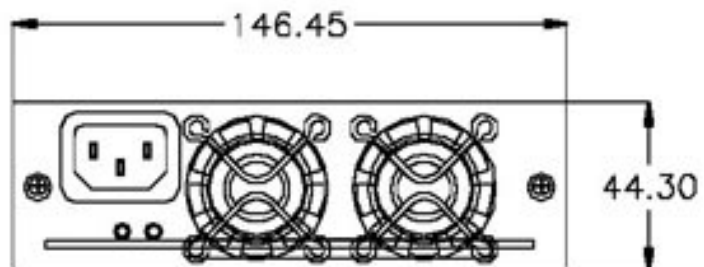
Weight in Grams (Oz) 1.6Kg (3.5Lb)

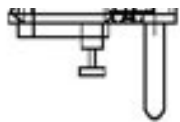
Cover N/A

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Outline Drawing





All characteristics are subject to change without prior notice.