

Strong Box® Next generation Single output Front-End 1U High, Single output at 1800W with I²C Data bus

Features:

- High density 1U Module Architecture
- Single output up-to 1800W Plus 5V 0.1A Standby
- Hot-Swap with active current sharing
- Constant voltage / Constant current / Constant power SOA
- 48V DC or 24V DC Front-End with Battery back-up option
- Wide range AC input with active Power Factor Correction
- I²C IPMI Serial data bus
- 8 Watts/Cubic inch Power Density
- Paralleling of units for higher output current
- Universal 90-264V_{AC} input
- Class – B EMI filter
- Output temperature compensation– Option
- Low Battery Disconnect drive– Option
- Output reverse polarity protection– Option
- Front to Back Self Cooling

Standard Models:

Ordering Information	Voltage	Current	Aux. Voltage	Notes
900-2100-00xx	N/A	N/A	N/A	1U 19" Cabinet for 3 Cassettes
900-2100-48xx	48.00	12.5	5V / 0.5A	
900-2100-28xx	28.00	21.0	5V / 0.5A	
900-2100-24xx	24.00	25.0	5V / 0.5A	

Options:

xx Suffix

00	Standard
01	With "OrRing" Diodes
02	With "OrRing" Diodes and output Reverse protection Fuse
10	I ² C Data Bus Only
11	I ² C Data Bus + "OrRing" Diode
12	I ² C Data Bus + "OrRing" Diode + Output Fuse

Specifications StrongBox® Series

Output Specifications

Total Output Power Continuous Max	600Watts
Total output regulation.....	2%
Output Voltage adjustment range	+/- 5%
Ripple & Noise P-P.....	Less than 100mV
Hold-Up time	20mSec
Dynamic Response (50% Step load).....	300mV Max
Current share.....	+/- 10% Full load rating
Minimum Load	No-Load
Over-Voltage Protection	Latched shutdown
Temperature coefficient.....	+/- 2% / °C

Input Specifications

Input Voltage Range	.85 – 264V _{AC}
Input Frequency	47-63 Hz
Power Factor	0.99
Inrush Current Limit.....	30A Peak
Input EMI Filter.....	Per EN55022 Curve –B
Harmonic Distortion	Per EN 61000-3-2
Input Immunity – Fast transients	+/-2Kv Per EN61000-4-4 Level 3
Input Immunity – Surge L-L	+/-2Kv Per EN61000-4-5 Level 3
Input Immunity – Surge L-N	+/-4Kv Per EN61000-4-5 Level 4
Input Protection.....	Internal On-Board Fuse

Command and Control

Input In-Range signal.....	Open Collector Fail
Output Power good Signal.....	Open Collector Fail
I ² C Data Bus	
Front Panel Green LED	AC in Range
Front Panel Red LED.....	DC Fail

General Specifications

Isolation	Input – Output	3000VAC
	Input – Ground.....	1500VAC
	Output –Ground	500VDC
Efficiency	At 230VAC input	90% at Full Load
	At 110VAC input	87% at Full Load
MTBF Per Bellcore.....		250000 Hours
Safety Standards	UL-1950 CSA 22.2 No.950	EN60950

Environmental Specifications

Operating Temperature	Full Power.....	0 - 50°C
	Derating.....	2.5%/°C 50 - 70°C
Storage Temperature.....		-40 - +85°C
Humidity		Up to 95% Non-Condensing
Cooling		Internal Ball bearing fans

Physical Specifications

Dimension	1.6 H x 19" W x 12" D for cabinet
Weight.....	TBD

Input Output Connections

Input Connector	IEC320 on Front Panel
Output Connector.....	75A Terminal Block Rear Panel
Command and Control	D-Type 25 Pin Rear Panel