

Strongbox[®] Next generation Single output 48V Front-End 19 " Rack 1U High , Single output at 1800W with I2C Data bus

Main Features

- High density 19" Rack ,1U Height ,cassette Architecture
- Single output 48V / 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
- Active I2C Serial data bus
- 8 Watts/Cubic inch Power Density
- Paralleling of units for higher output current
- Universal 85-264VAC input
- Meets EN55022 Class B Requirements
- External Temperature compensation Option
- Low Battery Disconnect drive Option
- Output reverse polarity protection Option
- Self cooling , front to back , via high-Rel. fans



Standard Models:

Ordering Information	Voltage	Current	Aux.Voltage	Notes
900-2150-0000	N/A	N/A	N/A1U	19" Cabinet for 3 Cassettes
900-2100-48xx	48.00	12.5	5V / 0.03A	
900-2100-28xx	28.00	21.0	5V / 0.03A	
900-2100-24xx	24.00	25.0	5V / 0.03A	

Options:

xx Suffix

00	Standard
01	With "Or Ring Diodes"
02	With "Or-Ring" Diodes and output Reverse protection Fuse
10	I2C Data Bus Only
11	I2C Data Bus + "Or-Ring" Diode
12	I2C Data Bus + "Or-Ring" Diode + Output Fuse

Specifications Strongbox[®] Series

Output Specifications (Single Unit)

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)..... 2V 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 - 264VAC
 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 :

Open Collector Fail..... Open Collector Fail
 Output Power good Signal..... Open Collector Fail
 I2C 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

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

Environmental Specifications

Operating Temperature... Full Power..... -5 - 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 1U H x 19" W x 12" D for cabinet
 Weight TBD

Outline Drawing

