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Find the *Chroma cPWR-1500A* at our website: ***Click HERE***

cPWR-1500/1510/1520A

175W Redundant Power Supply Unit

Features

- PICMG 2.11 compliant power supply modules
- N+1 redundant
- Hot swappable
- Universal AC, -48VDC and 24VDC power in
- Over voltage protection
- Over temperature protection
- Short circuit protection
- Supports Positronic connector (47-pin)
- Front panel Power OK status LED



cPWR-15xxA



Illustration of dual redundant power supply

Introduction

The cPWR-15xxA series are 3U CompactPCI power supply modules featuring front access, hot swappable and N+1 redundancy. They utilize switching technology and high power density design to achieve its small size and high power output. Optionally two or more power supplies can be used in a system to implement current sharing, N+1 redundancy and fault tolerant system. Multiple models are available to support 110/220 AC input (cPWR-1500A), -48VDC input (cPWR-1510A) and +24VDC input (cPWR-1520A). cPWR-15xxA series use Positronic 47-pin connector.

Specifications

Input

Item	cPWR-1500A	cPWR-1510A	cPWR-1520A
Voltage	90 – 264VAC	36 – 72VDC	18 – 36VDC
Input Current	< 5A	< 9A	< 20A
Inrush Current	< 40A @ 240VAC	< 40A	< 40A
Frequency	50 – 60 Hz		
Power Factor	0.99 typical		
Efficiency	Typical 73%	Typical 73%	Typical 73%
Protection	Fuse, Over Voltage, Under Voltage, Protection Note: Current = 5A max. Voltage: 270V max., 85V min.	Fuse, Over Voltage, Under Voltage, Protection Note: Current = 10A max. Voltage: 75V max., 35V min.	Fuse, Over Voltage, Under Voltage, Protection Note: Current = 20A max. Voltage: 40V max., 16V min.

Output

Item	cPWR-1500A/ cPWR-1510A/ cPWR-1520A
Rated Power	175W maximum
Voltage	+5V, +3.3V, +12V, -12V
Current	25A @ +5V (Combined current @ +5V & +3.3V < 27A) 25A @ +3.3V 3A @ +12V 1A @ -12V
Voltage Error	< ±3% @+5V < ±5% @+3.3V < ±5% @+12V < ±5% @-12V
Ripple Voltage	100mV or 1 % whichever is greater
Current Sharing	Any number of power supplies can be operated in parallel and will share +5V and +3.3V current to within 10%
Load regulation	±1%@+5V ±3%@+3.3V / +12 V / -12V
Line regulation	±0.3%
Hold-up time	>6ms
Rise time	< 500ms from AC/DC power up. All output voltages come up within 10 msec of each other
Temperature Coefficient	0.05% /°C
Protection	1. All outputs protected against overload and short circuit. Straightline current limiting, does not fold-back or latch-up during startup or load transients. Automatic recovery. 2. Shutdown at internal heatsink temperature of 95°C. Automatic recovery. 3. Shutdown at the output voltage exceeds the nominal voltage 20%. Recycle power to reset.

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