

cPS-H325/24, H325/110

PICMG® 2.11 47-pin Hot-Swap Redundant 3U CompactPCI® 8HP 250 W Power Module

Features

- PICMG® 2.11 CompactPCI® Power Interface compliant
- 3U CompactPCI® 8HP form factor
- PICMG® 2.11 47-pin CompactPCI® in-rack power module interface
- 250 W DC output
- Active PFC (Power Factor Correction) meets IEC1000-3-2 Harmonic Correction
- Internal OR-ing Diodes for N + 1 redundancy
- Hot swappable
- Active current sharing
- EMI meets EN 55022 & FCC Class A
- Supports remote ON/OFF
- Supports power failure signal & degradation signal



Specifications

Model Name

cPS-H325/24
 PICMG® Standards: PICMG® 2.11 CompactPCI®
 Form Factor: 3U cPCI (100 x 160mm), 2-slot (8HP) wide
 Input Voltage: 18-36 VDC
 Input Frequency: DC
 Input Current: Peak 32.6A @ 24 VDC
 Inrush Current: N/A
 Power Factor (PFC, only for AC): Correction Typical 0.95-0.97
 Meets Harmonic Correction IEC1000-3-2

Model Name

cPS-H325/110
 PICMG® Standards: Power Interface compliant
 Form Factor: 3U cPCI (100 x 160mm), 2-slot (8HP) wide
 Input Voltage: 66-160 VDC
 Input Frequency: DC
 Input Current: 2.8A @ 110 VDC
 Inrush Current: 10.5A @ 110 VDC
 Power Factor (PFC, only for AC): Correction Typical 0.95-0.97
 Meets Harmonic Correction IEC1000-3-2

Output Voltage/Current

5V Typ. 25.0A, Max. 33.0A
 3.3V: Typ. 18.0A, Max. 33.0A
 +12V: Typ. 5.0A, Max. 5.5A Typ. 5.0A, Max. 6A
 -12V: Typ. 0.5A, Max. 1A Typ. 0.5A, Max. 1.5A

Max. load is the continuous operating load of each rail individually. The max. load of each rail cannot be drawn from all outputs simultaneously.

Output Voltage

0.5 A @ +5 V
 Minimum Load
 Output Wattage: Typical 250W continuous
 Line Regulation: Typical 0.1%
 Load Regulation: Typical \pm 1-2%

Ripple

50 mV @ +5 V and 3.3 V outputs
 120 mV @ +12 V and -12 V outputs
 Hold-up Time: 5 ms after power fail signal
 Efficiency: Typical 78-79%
 Typical 79% @ 110VDC

Output Voltage Sense

Available at 5V, 3.3V, and +12V outputs and current sharing
 N+1 Redundancy: Equipped with internal OR-ing diodes at all outputs for N+1 redundancy operation
 Remote ON/OFF: Available at [INH#] & [EN#]

Power Failure Signal

Available at [FAL#] pin

Power Degradation Signal

Available at [DEG#] pin

Specifications

Protections

- Over Temperature Protection (OTP): +70°C
- Over Current Protection (OCP): Installed at each rail
- Over Load Protection (OLP): Typical 120% max. load, fully protected against output overload or short circuit.
- Over Voltage Protection (OVP): Built-in at all outputs

Status LED

- <Green LED> [POWER] means valid input voltage
- <Amber LED> [FAULT] means a critical fault

Earth Leakage

<0.5 mA @ 230 VAC <0.5 mA @ 48 VDC <0.5 mA @ 24 VDC

Operating Temperature

- 40 °C to +70 °C at full load with at least 600LFM air flow Derates linearly to 60% at +70°C for H325/24 (A warm-up time 3 minutes is required after cold start at temperature from 0°C to -40 °C)
- 40 °C to +75 °C at full load with specified air flow Derates linearly to 60% at +75°C for H325/110 (A warm-up time 10 minutes is required after cold start at temperatures from 0°C to -40 °C)

Storage Temperature

-40°C to +85°C

Humidity

5% to 95% non-condensing

Shock

15 G peak-to-peak, 11 ms duration, non-operation

Vibration

- Operation: 1.88 Grms, 5-500 Hz, each axis
- Cooling Requirement: Min. 20 CFM is required for typical full power rating

Certifications

IEC950, EN 55022, FCC Class A, IEC60950 Class I

Ordering Information

Processor Blades

- **cPS-H325/24**
PICMG® 2.11 47-pin hot-swap redundant 3U CompactPCI®
8HP 250 W power module with 18-36VDC Input
- **cPS-H325/110**
PICMG® 2.11 47-pin hot-swap redundant 3U CompactPCI®
8HP 250 W power module with 66-160VDC input

