

cPS-H325/AC, H325/48

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/AC

PICMG® Standards: PICMG® 2.11 CompactPCI®

Form Factor: 3U cPCI (100 x 160mm), 2-slot (8HP) wide

Input Voltage: 90-264 ± 10% VAC

Input Frequency: 47-63 ± 5% Hz

Input Current: 2.8 A @ 115 VAC

1.4 A @ 230 VAC

Inrush Current: <30 A @ 230 VAC

Model Name: cPS-H325/48

PICMG® Standards: Power Interface compliant

Form Factor: 3U cPCI (100 x 160mm), 2-slot (8HP) wide

Input Voltage: 36-72 VDC

Input Frequency: DC

Input Current: typ. 20A @ 48 VDC

Inrush Current: N/A

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. 6A

-12V: 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 ± 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%

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 temperatures from -40 °C to +0°C.)

Storage Temperature

-45°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

- **cPS-H325/AC**
PICMG® 2.11 47-pin hot-swap redundant 3U CompactPCI®
8HP 250 W power module with universal AC Input
- **cPS-H325/48**
PICMG® 2.11 47-pin hot-swap redundant 3U CompactPCI®
8HP 250 W power module with 36-72VDC Input

