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

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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

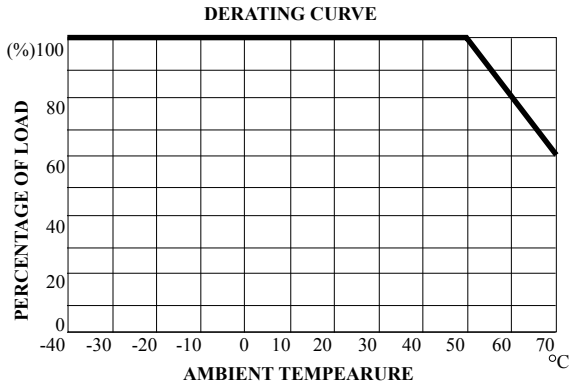
Vibration
Operation: 1.88 Grms, 5-500 Hz, each axis

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



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