

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 ± 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



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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 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

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

Humidity

5% to 95% non-condensing

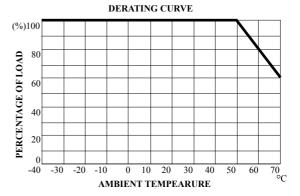
Shock

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





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