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



EXTENDED TEMPERATURE

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

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

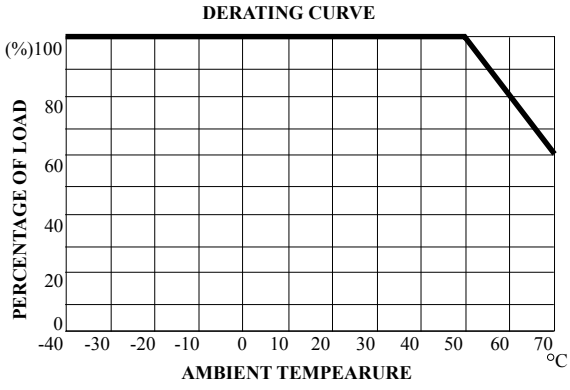
Cooling Requirement: Min. 20 CFM is required for typical full power rating

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



LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

All products and company name listed are trademarks or trade names of their respective companies.
Updated Mar. 10, 2017. ©2017 ADLINK Technology, Inc. All Rights Reserved.
All specifications are subject to change without further notice.