CPS-H325/24, H325/110 PICMG® 2.11 47-pin Hot-Swap Redundant 3U CompactPCI® 8HP 250 W Power Module



NEW

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

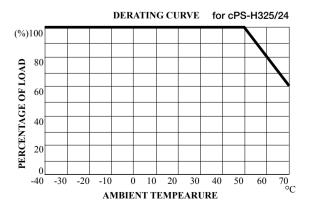
Specifications³

Model Name	cPS-H325/24	cPS-H325/110	
PICMG® Standards	PICMG® 2.11 CompactPC	CI® Power Interface compliant	
Form Factor	3U cPCI (100 x 160mm), 2-slot (8HP) wide		
Input Voltage	18-36 VDC	66-160 VDC	
Input Frequency	DC	DC	
Input Current	Peak 32.6A @ 24 VDC	2.8A @ 110 VDC	
Inrush Current	N/A	10.5A @ 110 VDC	
Power Factor	Correction Typical 0.95-0.97		
(PFC, only for AC)	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 signa	l	
Efficiency	Typical 78-79%	Typical 79% @ 110VDC	
Output Voltage Sense	Available at 5V, 3.3V, and 4	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		
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.		

Status LED	<green led=""> [POWER] means valid input voltage</green>	
	<amber led=""> [FAULT] means a critical fault</amber>	
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)	
	$^{-}40^{\circ}\text{C}$ to $+75^{\circ}\text{C}$ at full load with specified air flow Derates linearly to 60% at $+75^{\circ}\text{C}$ 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

Model Number	Description/Configuration	
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	



Over Voltage Protection (OVP): Built-in at all outputs