

cPS-H325/AC, H325/48, H325/24

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, maximum 300 W peak 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

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
cPS-H325/24	PICMG® 2.11 47-pin hot-swap redundant 3U CompactPCI® 8HP 250 W power module with 18-36VDC Input

Specifications

Model Name	cPS-H325/AC	cPS-H325/48	cPS-H325/24
PICMG® Standards	PICMG® 2.11 CompactPCI® Power Interface Compliant		
Form Factor	3U cPCI (100 x 160mm), 2-slot (8HP) wide		
Input Voltage	100-240 ± 10% VAC	36-72 VDC	18-36 VDC
Input Frequency	50-60 ± 5% Hz	DC	DC
Input Current	2.8 A @ 226 VAC / 1.4 A @ 230 VAC	7A @ 48 VDC	14A @ 24 VDC
Inrush Current	<30 A @ 230 VAC	N/A	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. 5.5A -12V: Typ. 0.5A, Max. 1A 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 Minimum Load	0.5 A @ +5 V		
Output Wattage	Typical 250W continuous, maximum 300 W peak output		
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	Installed 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. 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 Temp.	0 to 70°C (0 to +50°C at full load with specified air flow. Derates linearly to 50% at +70°C.)		
Storage Temp.	-40°C to +85°C		
Humidity	5% to 95% non-condensed		
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 rating power		
Certificate or Safety	IEC950, EN 55022, FCC Class A, IEC60950 Class I		

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