

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

PICMG 2.11 47-Pin Hot-Swap Redundant 3U CompactPCI 8HP 250W 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
- 250W DC output, maximum 300W 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 47-pin hot-swap redundant 3U CompactPCI 8HP 250W power module with universal AC Input
cPS-H325/48	PICMG 2.11 47-pin hot-swap redundant 3U CompactPCI 8HP 250W power module with 36-72VDC Input
cPS-H325/24	PICMG 2.11 47-pin hot-swap redundant 3U CompactPCI 8HP 250W 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 slots (8HP) wide		
Input Voltage	100-240 $\pm$ 10% VAC	36-72 VDC	18-36 VDC
Input Frequency	50-60 $\pm$ 5% Hz	DC	DC
Input Current	2.8A@115VAC / 1.4A@230VAC	7A@48VDC	14A@24VDC
Inrush Current	< 30A@230VAC	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	0.5A@+5V		
Output Wattage	Typical 250W continuous, maximum 300W peak output		
Line Regulation	Typical 0.1%		
Load Regulation	Typical $\pm$ 1-2%		
Ripple	50mV @+5V and 3.3V outputs		
	120mV @+12V and -12V 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.		
Status LED	Over Voltage Protection (OVP): Built-in at all outputs		
	<Green LED> [POWER] means valid input voltage		
Earth Leakage	<Amber LED> [FAULT] means a critical fault		
	<0.5mA @230VAC	<0.5mA @48VDC	<0.5mA @24VDC
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 to +85°C		
Humidity	5% to 95% non-condensed		
Shock	15G peak-to-peak, 11ms duration, non-operation		
Vibration	Operation: 1.88Grms, 5-500Hz, 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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