

cPS-H640/AC, H640/48

400W 6U CompactPCI Hot-Swappable Redundant Power Supply



Features

- PICMG 2.11 CompactPCI Power Interface compliant
- 6U CompactPCI 8HP form factor
- PICMG 2.11 47-pin CompactPCI in-rack power module interface
- 400W DC output, maximum 480W 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 meet EN 55022 & FCC Class A
- Supports remote ON/OFF
- Supports power failure signal & degradation signal

Ordering Information

cPS-H640/AC	PICMG 2.11 47-Pin Hot-Swap Redundant 6U CompactPCI 8HP 400W Power Module with Universal AC Input
cPS-H640/48	PICMG 2.11 47-Pin Hot-Swap Redundant 6U CompactPCI 8HP 400W Power Module with 36-72VDC Input

Specifications

Model Name	cPS-H640/AC	cPS-H640/48
PICMG Standards	PICMG 2.11 CompactPCI 47-pin Power Interface compliant	
Form Factor	6U cPCI (233.33 x 160mm), 2-slot (8HP) wide	
Input Voltage	100-240 ± 10% VAC	36-72 VDC
Input Frequency	50-60 ± 5% Hz	DC
Input Current	5.1A @115VAC / 2.5A @230VAC	12A @ 48VDC
Inrush Current	< 30A @230VAC	N/A
Power Factor Correction (PFC, only for AC)	Typical 0.97-0.99 Meets Harmonic Correction IEC1000-3-2	
Output Voltage/Current	5V: Typ. 40.0A, Max. 50.0A 3.3V: Typ. 20.0A, Max. 40.0A +12V: Typ. 10.0A, Max. 15.0A -12V: Typ. 2.0A, Max 5.0A ** 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	1.0A @+5V	
Output Wattage	Typical 400W continuous, maximum 480W peak output	
Line Regulation	Typical 0.1%	
Load Regulation	Typical ± 1-3%	
Ripple	50mV @+5V and 3.3V outputs, 120mV @+12V and -12V outputs	
Hold-up Time	10ms after power fail signal	
Efficiency	Typical 79-83%	
Output voltage sense and current sharing	Available at 5V, 3.3V and +12V outputs	
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 ,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	<0.9mA @230VAC	N/A
Operating Temp.	0 to 70°C (0 to +40°C at full load with specified air flow. De-rates linearly to 50% at +70°C.)	
Storage Temp.	-20 to +85°C	
Humidity	20% to 90% non-condensed	
Shock	15G peak-to-peak, 11ms duration, non-operation	
Vibration	Operation: 1.88Grms, 5-500Hz, each axis	
Cooling Requirement	Minimum 20 CFM airflow is required for typical full rating power	
Compliance	IEC950, EN 55022, FCC Class A, IEC60950 Class I	

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