cPS-H640/AC, H640/48

400 W 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
- 400 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
- EN 55022 & FCC Class A
- Supports remote ON/OFF
- Supports power failure signal & degradation signal

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 160 mm), 2-slot (8HP) wide	
Input Voltage	100-240 10% V AC	36-72 V DC
Input Frequency	50-60 5% Hz	DC
Input Current	5.1 A @115 V AC / 2.5 A @ 230 V AC	12A @ 48 V DC
Inrush Current	< 30 A @230 V AC	N/A
Power Factor Correction (PFC, only for AC)	Typical 0.97-0.99	
	Meets Harmonic Correction IEC1000-3-2	
Output Voltage/ Current	5 V: Typ. 40.0 A, Max. 50.0 A	
	3.3 V: Typ. 20.0 A, Max. 40.0 A	
	+12 V: Typ. 10.0 A, Max. 15.0 A	
	-12 V: Typ. 2.0 A, Max 5.0 A	
	** 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	1.0 A @ +5 V	
Output Wattage	Typical 400 W continuous	
Line Regulation	Typical 0.1%	
Load Regulation	Typical 1-3%	
Ripple	50 mV @ +5 V and 3.3 V outputs, 120 mV @ +12V and -12V outputs	
Hold-up Time	10 ms after power fail signal	
Efficiency	Typical 79-83%	
Output voltage sense and current sharing	Available at 5 V , 3.3 V and +12 V 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, 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 @ 230 V AC >	N/A
Operating Temp.	0°C to 70°C (0°C to +40°C at full load with specified air flow. De-rates linearly to 50% at +70°C.)	
Storage Temp.	-20°C to +85°C	
Humidity	20% to 90% 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	Minimum 20 CFM airflow is required for typical full rating power	
Compliance	IEC950, EN 55022, FCC Class A, IEC60950 Class I	

Ordering Information

Model Number	Description/Configuration
cPS-H640/AC	PICMG® 2.11 47-Pin Hot-Swap Redundant 6U CompactPCI 8HP 400 W Power Module with Universal AC Input
cPS-H640/48	PICMG® 2.11 47-Pin Hot-Swap Redundant 6U CompactPCI 8HP 400 W Power Module with 36-72 V DC Input