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

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
Input Frequency: 50-60 5% Hz
Input Current: 5.1 A @115 V AC / 2.5 A @ 230 V AC
Inrush Current : < 30 A @230 V AC

Model Name: 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: 36-72 V DC
Input Frequency: DC
Input Current: 12A @ 48 V DC
Inrush Current : 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
Output Wattage: 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 >

Specifications

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

- **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

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