

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