**Specifications**

- **Model Name**: cPS-P325/AC
- **PICMG® Standards**: PICMG® 2.11 CompactPCI® Power Interface compliant
- **Form Factor**: 3U cPCI (100 x 160mm), 2-slot (8HP) wide
- **Input Voltage**: 100-240 ± 10% VAC
- **Input Frequency**: 50-60 ±5% Hz
- **Input Current**: 3.6A@230VAC, 4A@260VAC
- **Inrush Current**: <15A@240VAC
- **Power Factor Correction**: Typical 0.95
- **Output Voltage/Current**:
  - 5V: Typ. 25A, Max. 40A
  - 3.3V: Typ. 20A, Max. 40A
  - +12V: Typ. 4A, Max. 5.5A
  - -12V: Typ. 1A, Max. 2A
- **Maximum Load**: The continuous operating load of each rail individually. The max. load of each rail cannot be drawn from all outputs simultaneously.
- **Output Voltage**: 1.5A @+12V
- **Output Wattage**: Typical 250W continuous
- **Line Regulation**: max + -10mV
- **Load Regulation**: 3.3V & 5V: + -10mV, +12V: + -30mV, -12V: -380 mV
- **Ripple**: 60 mV @ +/5 V and 3.3 V outputs, 120 mV @ +12 V and -12 V outputs
- **Hold-up Time**: 20 ms after power fail signal
- **Efficiency**: Typical 81.5-82.6%
- **Output voltage sense**: Available at 5V, 3.3V, and +12V outputs and current sharing
- **N+1 Redundancy**: Equipped 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

**Features**

- RoHS lead-free-solder products
- Compliant with PICMG® CompactPCI® specifications
- Wide range AC input with PFC
- Extremely high efficiency and high power density
- Low inrush current
- 4 high current outputs with flexible load distribution
- Integrated ORing FETs / diodes for true redundancy
- Inhibit and enable inputs
- Remote sense lines
- Single-wire current share function for 3 outputs
- Hot-swap capability
- 47-pin connector
- Overtemperature, overvoltage, overcurrent, and overpower protection

**Power Degradation Signal**

Available at [DEG#] pin

**Protection**

- Over Temperature Protection (OTP): TC ≥105 °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**

1.18mA at 254Vac/60Hz

**Operating Temp.**

-25°C to 70°C (-25°C to +50°C at full load with specified air flow. Derates linearly to 50% at +70°C.)

**Storage Temp.**

-40°C to +85°C

**Humidity**

5% to 95% non-condensing

**Shock**

20G Acceleration amplitude, 11 ms duration, converter operation

**Vibration**

Operation: 4.9 Gms, 20-500Hz, each axis

**Cooling Requirement**

Min. 400 LFM (2 m/s) is required for typical full power rating

**Certifications**

IEC/EN 60950-1 2nd Ed, UL/CSA 60950-1 2nd Ed & China CCC

**Ordering Information**

- **Model Number**: cPS-P325/AC
- **Description/Configuration**: PICMG® 47-pin hot-swap redundant 3U CompactPCI® 8HP 250 W power module with universal AC Input