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Find the *Telkoor Power Supplies CPCI-AC-3U-300* at our website: *Click HERE*

# CompactPCI 3U 8HP 300 Watt AC power supply




## Product Description

**Industry's leading CPCI power supply delivering 300W continuous power.**
**Compliant with the PICMG 2.11. Telkoor's unique design using 2 converters in parallel – one for the 3.3V and one for the 5V enable max. current draw on the two outputs together.**

**Telkoor Part Number:**
**900-4002-0000**

## Product Specifications:

### Input

| | |
|---|---|
| **AC Input Voltage** | 90-264 VAC, auto range, single phase |
| **Input Inrush Current** | 50A max @230 VAC |
| **Input Reflected Ripple** | EN55022 Class B with the use of an external line filter |
| **Active Power Factor Correction** | 0.98 typical at 230Vac, full load<br>0.98 typical at 115Vac, full load |
| **Efficiency @ 230VAC Full Load** | >80% typical at 230Vac, full load rated power |
| **Efficiency @ 115VAC Full Load** | >76% typical at 120Vac, full load rated power |
| **Input Line Protection** | Internal Line Fuse: IEC type, 6.3A 250Vac quick acting |
| **Hold-up Time** | 14mSec typical at full load and 220VAC input |

### Output

| | |
|---|---|
| **V1 / Current** | +5VDC / 30A |
| **V2 / Current** | +3.3VDC /40A |
| **V3 / Current** | +12VDC / 5A |
| **V4 / Current** | -12VDC / 1A |
| **Aux V / Current** | N/A |
| **Total Output Power** | 300W with 250LFM forced air cooling |

| | |
|---|---|
| **Line Regulation** | +/- 0.5% |
| **Hot-Swap** | Yes |
| **Current Share** | Single Wire – on V1 & V2 |
| **Remote Sense (Open sense lines protected)** | On +5VDC & +3.3VDC |
| **Over-Voltage Protection** | 110% - 130% of V1, V2 & V3 with Latched Shut Down |
| **Short Circuit Protection** | Available on all outputs |
| **Temperature Protection** | Excess Temp will shut down the unit – with Auto Recovery |
| **Load Regulation** | |
| **V1 & V2** | +/- 1% |
| **V3 & V4** | +/- 4% |
| **Min. Load Requirement** | No |
| **Overshoot / Undershoot at Turn-on** | Less than 1% |
| **Turn-on Delay** | 2 Sec Max. |
| **Initial Setting Accuracy** | +/- 1% |
| **Voltage Set Point (Internal trim-pot) V1 / V2** | +/- 4% |
| **Ripple @ Noise with 20MHz Bandwidth measured across 120µF Load Capacitor Paralleled with 1µF Ceramic Cap.** | |
| **V1** | 60mV p-p |
| **V2** | 90mV p-p |
| **V3 & V4** | 120mV p-p |
| **Overload Protection** | |
| **V1 & V2** | 145% Max. |
| **V3** | 155% Max. |
| **V4** | 155% Max. |

## Environmental

| | |
|---|---|
| **Temperature** | |
| **Operation** | -5ºC to +55ºC full load with 250LFM Forced Air Cooling and de-rating linearly above 55ºC by 2.5% per ºC |
| **Storage** | -40ºC to +85ºC |
| **Humidity** | Up to 95% RH Non-Condensing |
| **Shock & Vibration** | Shock: Peak acceleration 20GPK max.<br>Vibration: Random vibration, 10Hz to 500Hz, 3 axis 1.9GRMS max. |
| **Conducted & Radiated Emission** | EN55022/CISPR22 Class B with an external TBD line filter |
| **Surge** | EN6100 -4-5 level 3 line-to-line 1KV line to chassis 2KV |
| **MTBF** | 300,000 Hours per Belcore Standard B332 Gb 30º |
| **Dielectric Isolation** | |
| **Input to Case** | 2200VAC. |
| **Input to Output** | 4200VAC |

| | |
|---|---|
| **Output to Case** | 100VDC |

## Safety, Regulations and EMI Specifications

| | |
|---|---|
| **Safety Approvals** | UL60950, EN60950 & CE marking |
| **ESD Susceptibility** | EN61000-4-2 level 4 8KV air |
| **Radiated Susceptibility** | EN61000-4-3 level 3 10V/m |
| **EFT / Burst** | EN61000-4-4 level 3 ±2KV |
| **Input Surge** | EN6100 -4-5 level 3 line-to-line 1KV line to chassis 2KV |
| **Conducted Disturbance** | EN61000-4-6 level 2 3Vrms |
| **Power frequency magnetic field** | EN61000-4-8 3A/m |

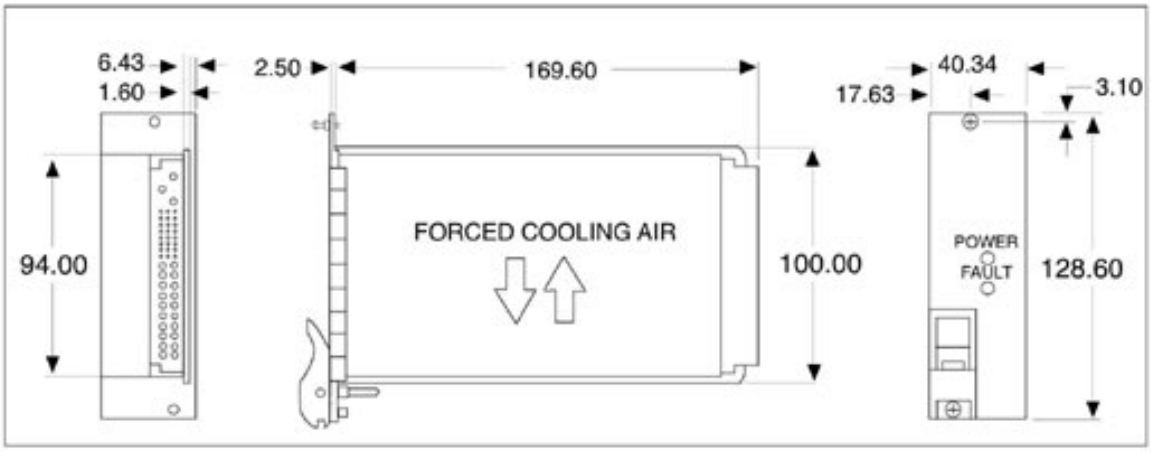
## Monitoring Command & Control

| | |
|---|---|
| **Remote** | N/A |
| **Inhibit** | TTL Compatible |
| **Power OK** | N/A |
| **Power FAIL (Fit #)** | TTL Compatible |
| **Current Share** | On V1 & V2 Allows +/- 10% Current Share with a Similar Unit |
| **DEG #** | Open Collector Activated LOW 10ºC before Thermal Shut-Down |
| **Input AC Connector** | Standard PICMG 47 Pin Positronics |
| **Remote Sense** | On V1 & V2 for Cable Loss Correction of up to 200mV |
| **Output Connectors V1/ V2** | Standard PICMG 47 Pin Positronics |
| **Output Connectors V3/ V4** | Standard PICMG 47 Pin Positronics |
| **Aux. Output** | N/A |
| **I²C Data Bus (optional)** | Yes for Pre-Programmed Static Parameters |
| **Front Panel Green LED** | Inputs OK |
| **Front Panel RED LED** | Output Failure |

## Mechanical Dimensions

| | |
|---|---|
| **Size** | 3U High 8HP wide 169.6 mm Deep |
| **Weight** | 800 gr |
| **Cover** | N/A |

## Outline Drawing




All characteristics are subject to change without prior notice.

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