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TECHNOLOGY GROUP

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Find the *Telkoor Power Supplies CPCI-AC-6U-400* at our website: *Click HERE*

CompactPCI 6U 8HP 400 Watt AC power supply



Product Description

Industry's leading CPCI power supply delivering 400W 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:
900-6002-0000

Product Specifications:

Input

AC Input Voltage	85-264 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 0.99 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, 8A 250Vac quick acting
Hold-up Time	16mSec typical at full load and 220VAC input

Output

V1 / Current	+5VDC / 50A
V2 / Current	+3.3VDC /80A

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V3 / Current	+12VDC / 7.5A
V4 / Current	-12VDC / 1.5A
Aux V / Current	N/A
Total Output Power	400W 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	+/- 4%
V4	+/- 4% With minimum load on 10A on the 3.3V output
Min. Load Requirement	No
Overshoot / Undershoot at Turn-on	Less than 1%
Turn-on Delay	1 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	100mV p-p
V2	60mV p-p
V3 & V4	120mV p-p
Overload Protection	
V1 & V2	130% Max.
V3	200% Max.
V4	200% Max.

Environmental

Temperature	
Operation	-5ºC to +55ºC with 300LFM Forced Air Cooling
Storage	-40ºC to +85ºC
Humidity	Up to 95% RH Non-Condensing
Shock & Vibration	Shock: Peak acceleration 10GPK max. 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	EN61000-4-5

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MTBF	400,000 Hours per Belcore Standard B332 Gb 30º
Dielectric Isolation	
Input to Case	1500Vdc.
Input to Output	3000Vdc.
Output to Case	100Vdc.

Safety, Regulations and EMI Specifications

Safety Approvals	UL60950, EN60950 & CE marking
Dielectric Withstand Voltage	1500VDC Input to Output, 3000VDC Input to Chassis Ground
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

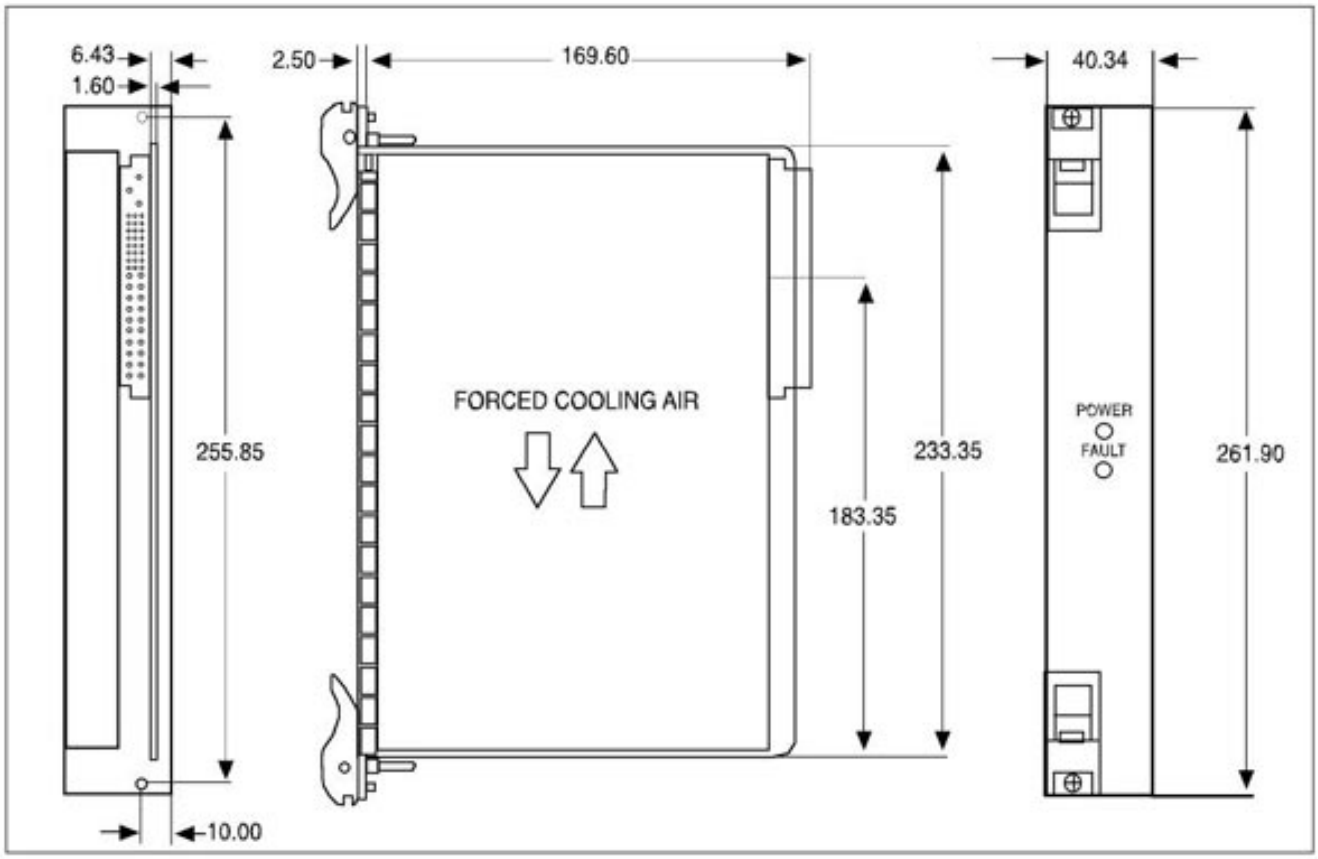
Remote	N/A
Inhibit	TTL Compatible
Power OK	N/A
Power FAIL (Fit #)	TTL Compatible
Current Share	On V1 & V2 Allows +/- 10% Current Share with a Similar Unit
DEG #	Open Collector Activated LOW 10ºC before Thermal Shut-Down
Input AC Connector	Standard PICMG 47 Pin Positronics
Remote Sense	On V1 & V2 for 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	6U High 8HP wide 169.6 mm Deep
Weight	1500 gr
Cover	N/A

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Outline Drawing



All characteristics are subject to change without prior notice.

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Artisan Technology Group is an independent supplier of quality pre-owned equipment

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