



Electrical Specification for: CPCI AC 6U 400W - R CompactPCI 6U 8HP 400 Watt AC COTS Power Supply	
Telkoor Part Number: 900-6602-0000	
CUSTOMER: SIZE CAGE CODE S5417 DWG. NO. 6602-DOC1-10 REV GENERAL SCALE RELEASE DATE 19/6/06 SHEET 1 OF	C1 5





REVISION HISTORY										
Rev Level	ECO	Change Made	Reason for Change	Effective						
Α		Preliminary product release		31/10/05						
A1		5V Ripple to 100mV p-p	Reflect actual unit performance	19/6/06						
В	6602-002	5V Ripple to 50mV p-p	Customer requirement	17/7/06						
С		Vibration level revised to 4 Grms	Customer requirement	3/8/06						
C1		Operation Temp changed to -40°C and	Customer requirement	30/08/2012						
		Operation Frequency up to 440Hz								

Approvals									
	Name	Date							
Written by:	S. Sadot	31/10/05							
Engineering:	M. Heller	19/6/06							
Sales & Marketing:	M. Allon	19/6/06							
Management:	Y. Ben-Ami	19/6/06							

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Input:

Input Voltage: 85-264VAC
Input Frequency: 45 - 440 Hz
Inrush Current: 60A Max. @230V

Efficiency 81% @ 230VAC full load 79% @ 115VAC full load

Power Factor: > 0.95

Input Protection: Non-User Serviceable Fuse
Hold up Time 16mSec @ full load

Output Voltages & Currents:

Output	Output Voltage	Adjustment Range	Output Current	Min Load
V1	+5	4.8 ÷ 5.4	50A	0
V2	+3.3	3.1 ÷ 3.5	80A	0
V3	+12	N/A	7.5A	0
V4	-12	N/A	1.5A	0

Output Power: 400W with 250LFM forced air cooling

Line Regulation: $\pm 0.5\%$

Load Regulation:

 $\begin{array}{ccc} V1 \;\&\, V2 & & \pm 1\% \\ V3 \;\&\, V4 & & \pm 5\% \end{array}$

Ripple & Noise with 20 MHz bandwidth measured cross 10uF load capacitor

paralleled

V1 50mV p-p V2 50mV p-p V3 & V4 120mV p-p

Over current Protection

V1 & V2 125% max V3 200% max V4 250% max

Initial Set Point Tolerance: +/- 0.4%for V1 & V2 +/- 2% for V3 & V4

Overshoot & Undershoot: Less than 5% at turn ON-OFF

Transient Load Response: For a step load of 50% max load peak transient < 5% and output recovers to

1% in less than 0.5mSec

Turn On Delay: 2 sec. Maximum.

Over-voltage Protection: 110 to 150% of V1, V2 &V3 with latched shut down

Temperature Protection: Excess temp will shut down the unit – with auto recovery

Current Share: Yes Hot Swap: Yes

Remote Sense On +5VDC & 3.3VDC

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Monitoring Command & Control

Remote N/A

Inhibit Open collector inhibited with GND

Power O.K N/A

Power Fail (flt#) Open collector high signal indicates output in range, low signal indicates DC Fail

DEG # Open collector activated low before thermal shut-down

I/O Connector Standard PICMG 47 pin Positronics

Remote Sense On V1 & V2 cable loss correction of up to 300mV

Aux. Output N/A

12C Data Bus Optional – static and dynamics parameters

Front Panel Green Led Outputs O.K
Front Panel Red Led Outputs Failure

Environmental Specifications:

Temperature: Operation: -40 °C to +55 °C with 40 CFM Forced-Air Cooling.

De-rated linearly above +55 °C by 2.5 % per °C

Storage: -40° C to $+85^{\circ}$ C

Cooling: 40 CFM forced Air Cooling

Humidity: Up to 95% RH non-condensing.

Vibration: See Figure 1 below - Vibration Graph

Shock: $20g \pm 3g \ 20mSec \ (17-23mSec)$ half sine duration of shock pulse Conducted & radiated emission EN55022 Class B & EN61000. Measured with a mains input filter.

Surge EN61000-4

MTBF >400,000 hours per Bellcore standard B332 Gb 50C

Conformal coating: In accordance to IPC-CC-830 for PCB only

Safety Regulatory & EMC Specifications:

MEETS FCC CLASS B, EN55022 CLASS B – With an external line filter

UL 60950

Safety Agency Compliance EN-60950

CE - MARK

EN61000-4-2 4Kv contact 8Kv air ESD susceptibility

EN61000-4-3 10V/m Radiated susceptibility

EN61000-4-4 1Kv EFT/Burst

EN61000-4-6 3Vrms Conducted disturbance

EN61000-4-8 1A/m Power frequency magnetic field

Dielectric Withstand:

Input to Case: 2200VDC.

Input to Output: 2200VAC

Output to Case: 100VDC.

Leakage current: 1.0mA max. @115VAC

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