

Electrical Specification for:		С	PCI	AC 6U 4	400W	- R		
	Rugged	Compac	t PC	I 6U 8HP 4	400 Wat	t AC Power	Supp	ly
Telkoor Part Number:				900-6602 [.]	-0000			
CUSTOMER:	SIZE	CAGE C	ODE	S5417	DWG. NO.	6602-DOC1-10	REV	C1
GENERAL	SCALE			RELEASE DATE	19/6/06	SHEET 1	OF	5



REVISION HISTORY									
Rev Level	ECO	Change Made	Reason for Change	Effective					
А		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		Lower Operation Temp -40 °C	Customer requirement	30/7/12					

	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

CUSTOMER:	SIZE	CAGE CODE		S5417	DWG. NO.	6602-DOC1-10		REV	C1
GENERAL	SCALE			RELEASE DATE	19/6/06	SHEET	2	OF	5



Input:

Current Share:

Remote Sense

Hot Swap:

Input:								
Input Voltage:		85-264VAC						
Input Frequency:		56.7 – 63.3 Hz						
Inrush Current:		60A Max. @230V						
Efficiency		81% @ 230VAC full loa 79% @ 115VAC full loa						
Power Factor:		> 0.95						
Input Protection:		Non-User Serviceable F	use					
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				
V3 & V4 Ripple & Noise with measured cross 10u paralleled V1	20 MHz bandwidth IF load capacitor	±5% 50mV p-p						
V2		50mV p-p						
V3 & V4		120mV p-p						
Over current Protec	tion							
V1 & V2		125% max						
V3		200% max						
V4		250% max						
nitial Set Point Tole			+/- 0.4%for V1 & V2 +/- 2% for V3 & V4					
Overshoot & Unders	shoot:		Less than 5% at turn ON-OFF					
Transient Load Res	ponse:	1% in less than 0.5mSe	For a step load of 50% max load peak transient < 5% and output recovers to 1% in less than 0.5mSec					
Turn On Delay:	tion	2 sec. Maximum.						
Over-voltage Protec			110 to 150% of V1, V2 &V3 with latched shut down					
Temperature Protec		Excess temp will shut d	own the unit – with auto rec	overy				

On +5VDC & 3.3VDC

Yes

Yes

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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:

Temperature:	Operation: -40 °C to +70 °C with 40 CFM Forced-Air Cooling. De-rated linearly above +55 °C by 2.5 % per °C Storage: -40 to +80°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:

GENERAL

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

SCALE

Safety Agency Compliance EN61000-4-2 4Kv contact		UL 60950 EN-60950 CE - MARK ESD susceptibility					
EN61000-4-3 10V/m		Radiated suscepti	bility				
EN61000-4-4 1Kv		EFT/Burst					
EN61000-4-6 3Vrms		Conducted distur	bance				
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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Mechanical Dimensions

Size Weight 6U High 8HP WIDE 169.6mm Deep 1.88Kg 3.2lbs. Max.

Outline Drawing

