

Electrical Specification for:			СРС	2 <b>I-3U-A</b> (	C-200\	N			
	2000	/ AC Inp	out (	3U Comp	actPCI	Power S	upp	bly	
Telkoor Part Number:			9	00-3002	-0000				
CUSTOMER: ARRIS	SIZE SCALE	CAGE CO	DDE	S5417 Release date	dwg. no. 13/03/08	3002-DOC1-1 SHEET	10 1	REV OF	C 7



	REVISION HISTORY											
Rev Level	Rev Date	Change Made	Reason for Change	Effective	Approved By							
A	13/03/2008	Specification Release		13/03/2008	S. Sadot							
В	13/05/2008	Update	Update Efficiency, Ripple, O.L.P, Hold- Up	13/05/2008	Y. Raichman							
С	09/08/2012	V3 +12V output current was 5A. Should be 3A.	Typing Error	09/08/2012	G. Sela							

	Approvals									
	Name	Date								
Written by:	S. Sadot	13/3/08								
Engineering:	M.Heller	13/3/08								
Sales & Marketing:	Y. Ben Ami	13/3/08								
Management:	Y. Ben Ami	13/3/08								

CUSTOMER: ARRIS	SIZE	CAGE CO	DDE	S5417	DWG. NO.	3002-DOC1-	10	REV	С
	SCALE			RELEASE DATE	13/03/08	SHEET	2	OF	7



Input:	
Input Voltage:	90 - 264Vac, auto range, single phase
Frequency:	47-63Hz
Inrush Current:	50 A maximum at 230Vac
Power Factor:	0.98 typical at 230Vac, full load 0.98 typical at 115Vac, full load
Efficiency	>80% typical at 230Vac, full load rated power >76% typical at 120Vac, full load rated power
Input Protection:	Internal Line Fuse: IEC type, 6.3A 250Vac quick acting
Brown – Out:	75 to 300Vac for 50Msec

## **Output Voltages & Currents:**

Output	Output Voltage	Adjustment Range	Output Current	Min Load
V1	+5V	4.8 ÷ 5.4	25A	0
V2	+3.3V	3.1 ÷ 3.5	36A	0
V3	+12V	0	3A	0
V4	-12V	0	0.5	0
Note: 1) Maximu	m output power at any comb	ination within this table is 200	W	
Output Power:		200W with 250LFM forc	ed air cooling	
Line Regulation:		±0.5%	-	
Load Regulation:				
V1,V2		±1%		
V3,V4		±4%		
Ripple & Noise		20 MHz bandwidth me Capacitor in paralleled	asured across 1uF ceramic a	and 120uF electrolytic.
V1,V2		75mV p-p		
V3 & V4		120mV p-p		
Overload & Short (	Circuit Protection	Fully protected against upon removal of overlo	output overload and short ci ad condition	rcuit. Automatic recovery
V1 & V2		150% max		
V3 & V4		150% max		
Initial Set Point To	lerance:	±1%		
Overshoot & Unde	rshoot:	0% at turn ON		
Hold Up Time		14mSec typical at full lo	ad and 220VAC input	
Turn On Delay:		2 sec. Maximum.		
Rise Time		30mSec from 10% to 9	0% of its final value .	
Over-voltage Prote	ection:	110 to 130% with latch	ed shut down (V1,V2,V3)	
Temperature Prote	action.	System shutdown due t	o excessive internal tempera	ature automatic reset

CUSTOMER: ARRIS	SIZE	CAGE CODE		S5417	DWG. NO.	3002-DOC1-10		REV	С
	SCALE			RELEASE DATE	13/03/08	SHEET	3	OF	7



Monitoring	Command	& Control	

Remote Sense	Available on V1 & V2. Maximum voltage compensation for cable losses 200mV
Inhibit (INH#)	TTL –compatible signal inhibited with GND or TTL "0"
Enable (EN#)	Contact closure to external ground to start unit. On shortest pin (last make, first break)
Power Fail (FAL#)	TTL compatible signal , open collector active low signal . Indicates one or more outputs below 90% of specified rate.
Current Share	Accuracy of current share $\pm 10\%$ between units with up to 6 parallel units. Single wire current share on V1 $$ & V2 for 50% to 100% load .
Hot Swap	Internal O-ring Diode
Over Temperature Warning (DEG#)	Open collector active low 10°C before power supply shut down.
I2C - Option	I <sup>2</sup> C Passive data : s/n , model no. ,revision ,and/or user defined data
Front Panel LED Status Indicator	A single bi-color LED <b>Green LED</b> - indicates output in range. <b>Red LED</b> - Indicates one or more outputs below 10% of specified rate.
Environmental Specification:	
Operating Temperature Storage Temperature	Operation: -5°C to +55°C full load with 250LFM Forced Air Cooling and de-rating linearly above 55°C by 2.5% per °C -40°C to +85°C
Humidity	Up to 95% RH non-condensing.
Shock:	Peak acceleration 20GPK max.
Vibration	Random vibration, 10Hz to 500Hz, 3 axis 1.9GRMS max.
Altitude	Operation 6K ft Non operation 40K ft.
MTBF	300,000 hours per Bellcore standard B332 Gb 30°C

CUSTOMER: ARRIS	SIZE	CAGE	ODE	S5417	DWG. NO.	3002-DOC1-	10	REV	С
	SCALE			RELEASE DATE	13/03/08	SHEET	4	OF	7



## Safety Regulatory & EMC Specifications:

Fully compliance to PICMG 2.11 CompactPCI Specification Safety Agency Compliance UL 60950 . EN-60950. CE - MARK

UL 60950, EN-60950, CE - MARK
EN61000-3-2
EN61000-4-3
EN61000-4-2 level 4 8KV air
EN55022/CISPR22 Class B with an external TBD line filter
EN6100 -4-5 level 3 line-to-line 1KV line to chassis 2KV
EN61000-4-3 level 3 10V/m
EN61000-4-4 level 3 ±2KV
EN61000-4-6 level 2 3Vrms
EN61000-4-8 3A/m
1500VAC.
3000VAC
100VDC.
5.07"H X 1.60"W X 6.40"D 128.7mm x 40.6mm x 162.5mm)
800 gr.

CUSTOMER: ARRIS	SIZE	CAGE CODE		S5417	DWG. NO.	3002-DOC1-10		REV	C
	SCALE			RELEASE DATE	13/03/08	SHEET	5	OF	7



## INPUT/OUTPUT CONNECTOR - Positronic-PCIH47M400A1/AA PIN ASSIGNMENT

Pin	Pin Type	Signal Name.	Description			
1-4	Normal	V1 V1 Output				
5-12	Normal	RTN V1 and V2 Return				
13-18	Normal	V2 V2 Output				
19	Normal	RTN	V3 Return			
20	Normal	V3	V3 Output			
21	Normal	V4	V4 Output			
22	Normal	RTN	Signal Return			
23	Normal	RTN	Signal Return			
24	Normal	RTN V4 Return				
25	Normal	GA-0	Geographic ADD-0 (option)			
26	Normal	Reverse	Reverse Reverse			
27	Short	EN# Enable				
28	Normal	GA-1	Geographic ADD-1 (option)			
29	Normal	NC Not Connected				
30	Normal	V1 Sense V1 Remote Sense				
31	Normal	GA-2	Geographic ADD-2 (option)			
32	Normal	NC	Not Connected			
33	Normal	V2 Sense V2 Remote Sense				
34	Normal	S RTN Sense Return				
35	Normal	V1 Share V1 Current Share				
36	Normal	NC	Not Connected			
37	Normal	IPMB_SCL	System Manager Bus (option)			
38	Normal	DEG# Degrade Signal				
39	Normal	INH#	Open – ON Low - OFF			
40	Normal	IPMB_SDA	System Manager Bus (option)			
41	Normal	V2 Share	V2 Current Share			
42	Normal	FAL# Fail Signal				
43	Normal	IPMB_PWR	Power–System Manager (option)			
44	Normal	NC	Not Connected			
45	Long	Chassis GND	Chassis GND			
46	Long	AC Neutral	AC input Neutral			
47	Long	AC Line	AC Input Line			

CUSTOMER: ARRIS	SIZE	CAGE CODE		S5417	DWG. NO.	3002-DOC1-10		REV	С
	SCALE			RELEASE DATE	13/03/08	SHEET	6	OF	7



