

**** PROPRIETARY DATA ****

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REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	RELEASED	2/11/2020	JG
	B	ADDED HAZARD LIGHT INFO	3/16/2020	JA

SPECIFICATIONS SUMMARY

OPERATING FREQUENCY RANGES:
RF OUTPUT POWER:
RF OUTPUT PROTECTION:

370-450MHz
2kW Min at P1dB Compression Pt.
Integral Output Isolator protected No
Oscillation at any Phase Angle at any
Load Impedance and angle
-10dBm to +3dBm
+10dBm Maximum W/O Damage
±1.5dB Maximum Into 1.05:1 VSWR
50Ω Nominal
1.5:1 Maximum (Ref 50Ω)
Integral Low Pass Filter
-90dBc Maximum from 720 –
2700MHz

RF INPUT POWER:
MAXIMUM RF INPUT POWER:
SMALL SIGNAL GAIN FLATNESS:
INPUT AND OUTPUT IMPEDANCE:
INPUT VSWR:
HARMONIC SIGNAL LEVELS:

SPURIOUS SIGNAL LEVELS:

-55dBc Maximum from 370-450MHz
-80dBc Maximum from 1-370MHz &
450-3000MHz
7/16 DIN Female 3ea
User Selectable Load/Omni/Directional
Internally blanked when switched
23dBc Minimum

RF OUTPUT CONNECTORS:
RF OUTPUT SELECTION:

Short to GND-RF ON, Open-RF
Blanking (Internally Pull up to +5V)
Short to GND-RF ON, Open-RF Off
(Open Collector output 200mA/5V
Maximum)

OUTPUT POWER CONTROL:
RF BLANKING INPUT POLARITY:

RF HAZARD LIGHT OUTPUT POLARITY:

<50 mSec after RF power received
<100mSec between any of the
Outputs

RF OUTPUT TURN-ON-TIME:
SWITCHING TIME:

LOCAL CONTROL:
REMOTE CONTROL:
RF OUTPUT SAMPLE:

Via Color Touchscreen LCD
Via RS-232 & Ethernet (UDP)
-63dBc from Output Power Level,
(FWD & REF)

COOLING:

Forced air via integral Front Panel
Intake and Rear Panel Exhaust Fans
Thermostat Shut-Off Indication at
+77°C Heatsink Temperature

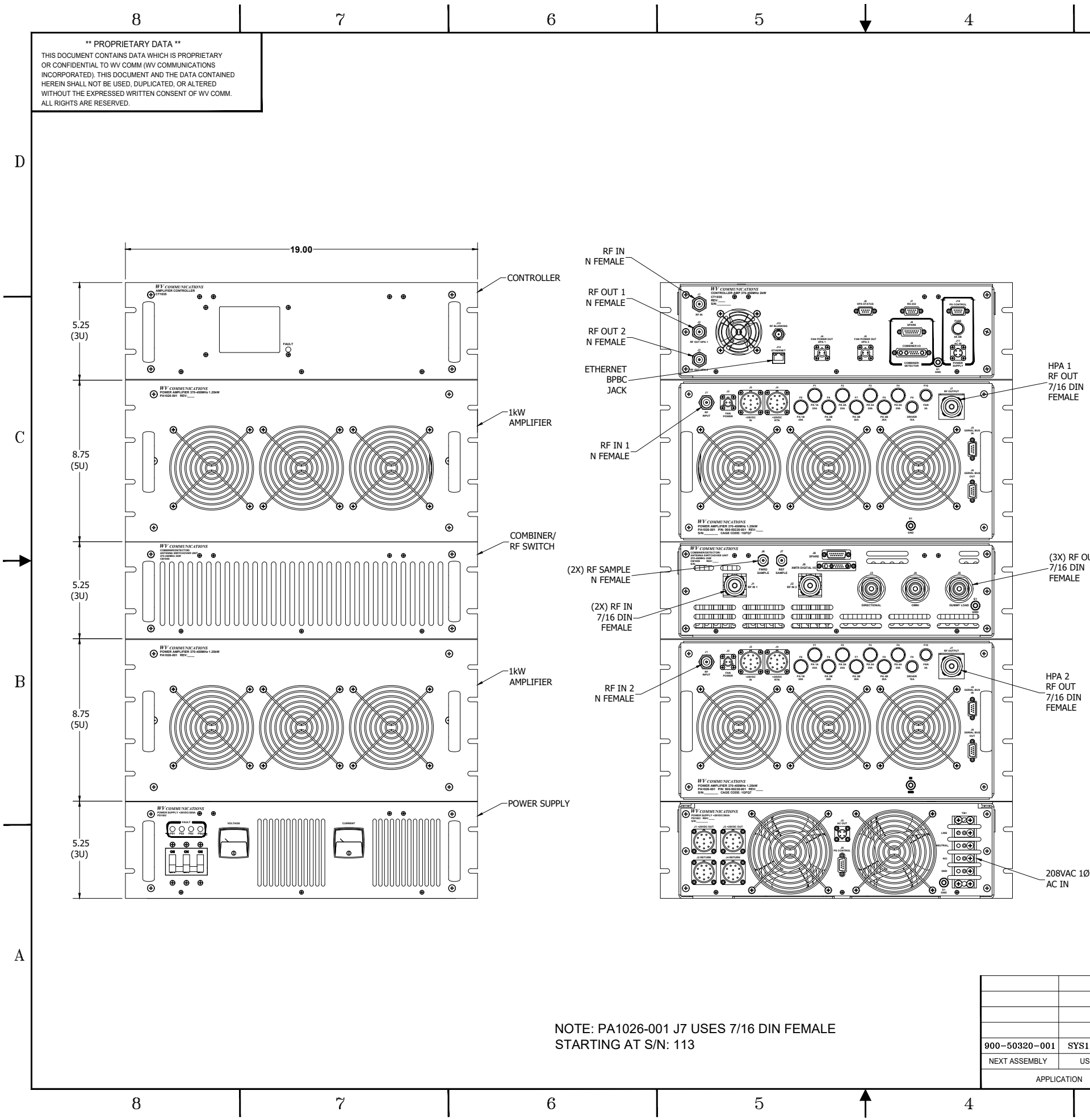
OVER TEMPERATURE PROTECTION:

TEMPERATURE RANGES:
ALTITUDE:
CHASSIS DEPTH:
AC INPUT POWER:

Operating 0 to +50°C
MSL to 70,000 Ft
26.75" Maximum
170-264VAC, 47-63Hz 1 Phase at
6.75kW Maximum

WEIGHT:
FRONT PANEL COLOR:

FED-STD-595 Grey 26307



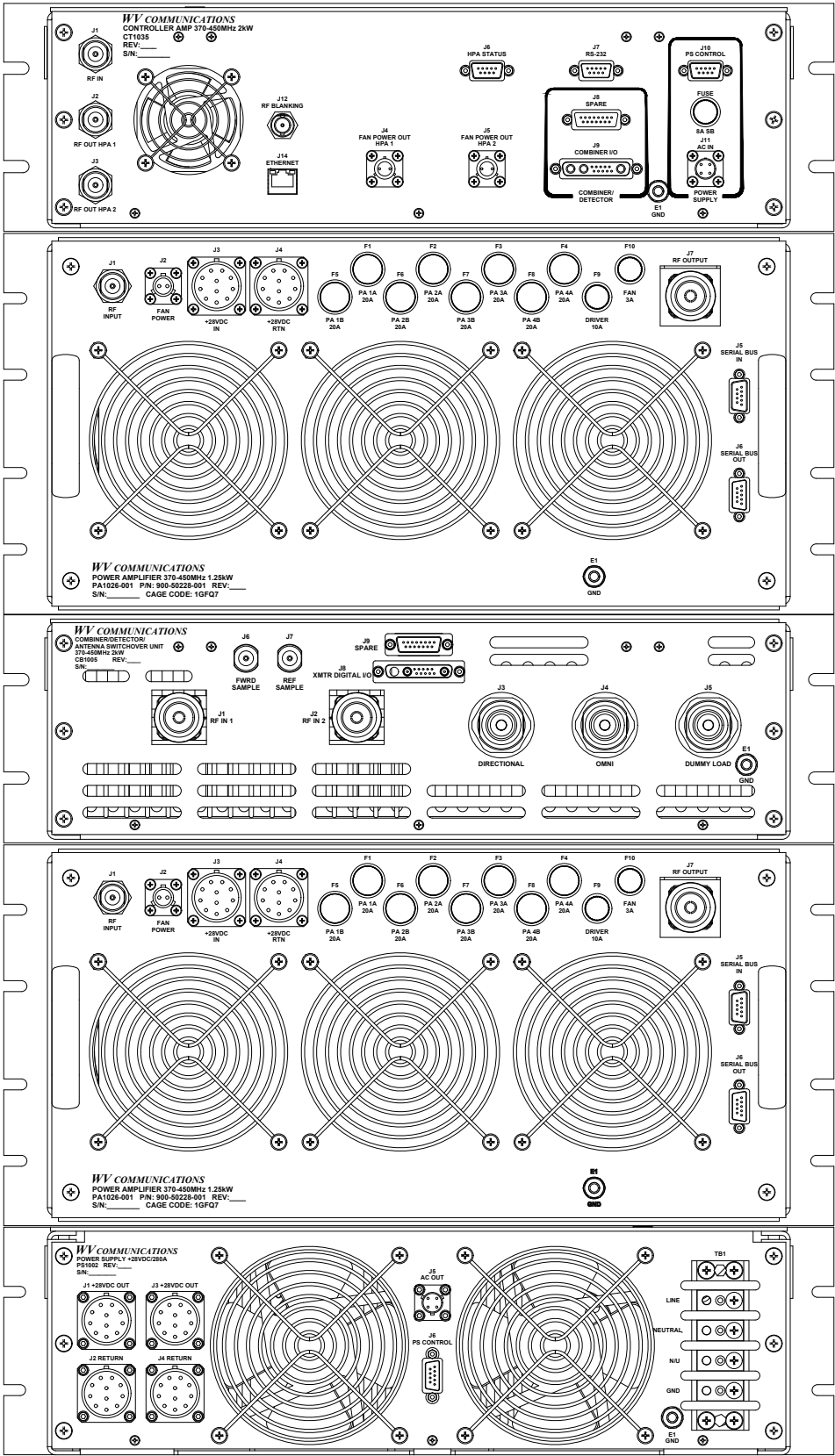
NOTE: PA1026-001 J7 USES 7/16 DIN FEMALE
STARTING AT S/N: 113

		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES ARE: FRACTIONS DECIMALS ANGLES HOLES $\pm 1/64$ $\pm .01$ $\pm 90^\circ$ $\pm .005$ $\pm .005$ $\pm .005$		APPROVALS DRAWN JAKOB 2/11/2020 CHECKED TT 2/11/2020 MECH ENGR TT 2/11/2020 ELEC ENGR JT 2/11/2020 PRODUCTION AM 2/11/2020 Q.A. SG 2/11/2020		DATE 2/11/2020 2/11/2020 2/11/2020 2/11/2020 2/11/2020 2/11/2020		<i>WV Communications</i> 1176 Tourmaline Dr. Newbury Park, CA AMPLIFIER SYSTEM, 370-450MHz 2kW SYS1032-001			
		MACHINED FINISH: 32 RMS REMOVE BURRS .005 MAX 									
		MATERIAL FINISH						SIZE D CAGE CODE 1GFQ7 DWG. NO. 050-50852-001		REV B	
900-50320-001		SYS1032-001									
NEXT ASSEMBLY		USED ON									
APPLICATION		DO NOT SCALE DRAWING				SCALE NONE				SHEET 1 OF 1	

8 7 6 5 4 3 2 1

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REVISIONS			
ZONE	REV	DESCRIPTION	DATE
		SEE SHEET 1	
		DATE	APPROVED



AMPLIFIER
CONTROLLER
CT1035
A5

POWER
AMPLIFIER
PA1026-001
A4

2KW COMBINER,
DETECTOR,
RF SWITCH
CB1005
A3

POWER
AMPLIFIER
PA1026-001
A2

POWER
SUPPLY
PS1003
A1

REAR VIEW

REF DES	SIGNAL DESCRIPTION	FROM / TO	CBL PIN
CT1035	A5		
A5J1	RF IN	A5J1 /	CUSTOMER CABLE
A5J2	RF OUT HPA 1	A5J2 / A4J1	CB-900-50320-A5.2
A5J3	RF OUT HPA 2	A5J3 / A2J1	CB-900-50320-A5.3
A5J4	FAN POWER HPA 1	A5J4 / A4J2	CB-900-50320-A5.4
A5J5	FAN POWER HPA 2	A5J5 / A2J2	CB-900-50320-A5.5
A5J6	HPA STATUS	A5J6 / A4J5	
A5J7	RS-232	A5J7 /	CUSTOMER CABLE
A5J8	DISCRETE I/O	A5J8 /	CUSTOMER CABLE
A5J9	XMTR DIGITAL I/O	A5J9 / A3J8	CB-900-50320-A5.9
A5J10	PS CONTROL	A5J10 / A1J6	CB-900-50320-A5.10
A5J11	AC IN	A5J11 / A1J5	CB-900-50320-A5.11
A5J14	ETHERNET	A5J12 /	CUSTOMER CABLE
A5E1	GND	A5E1/A4E1/A3GND/A4E1	CB-900-50320-A5.15
A5J12	RF BLANKING	A5J12 /	CUSTOMER CABLE
PA1026-001	A4		
A4J1	RF INPUT	A4J1 / A5J2	
A4J2	FAN POWER	A4J2 / A5J4	
A4J3	28VDC IN	A4J3 / A1J1	CB-900-50320-A4.3
A4J4	28VDC RTN	A4J4 / A1J2	CB-900-50320-A4.4
A4J5	SERIAL BUS IN	A4J5 / A5J6	CB-900-50320-A4.5
A4J6	SERIAL BUS OUT	A4J6 / A2J5	CB-900-50320-A4.6
A4J7	RF OUT	A4J7 / A3J1	CB-900-50320-A4.7
A4E1	GND	A5E1/A4E1/A3GND/A2E1/A1E1	CB-900-50320-A4.8
CB1000	A3		
A3J1	RF IN 1	A3J1 / A4J7	
A3J2	RF IN 2	A3J2 / A2J7	CB-900-50320-A3.2
A3J3	DIRECTIONAL	A3J3 /	CUSTOMER CABLE
A3J4	OMNI	A3J4 /	CUSTOMER CABLE
A3J5	DUMMY LOAD	A3J5 /	CUSTOMER CABLE
A3J6	FWD SAMPLE	A3J6 /	CUSTOMER CABLE
A3J7	REF SAMPLE	A3J7 /	CUSTOMER CABLE
A3J8	XMTR DIGITAL I/O	A3J8 / A5J9	
A3J9	SPARE	A3J9 /	CUSTOMER CABLE
A3GND	GND	A3GND/A5E1/A4E1/A2E1/A1E1	CB-900-50320-A3.10
PA1026-001	A2		
A2J1	RF INPUT	A2J1 / A5J3	
A2J2	FAN POWER	A2J2 / A5J5	
A2J3	28VDC IN	A2J3 / A1J3	CB-900-50320-A2.3
A2J4	28VDC RTN	A2J4 / A1J4	CB-900-50320-A2.4
A2J5	SERIAL BUS IN	A2J5 / A4J6	
A2J6	SERIAL BUS OUT	A2J6 / 220 OHM RESISTOR TERMINATION BET. PIN 7 & 8 ON BACK SHELL	
A2J7	RF OUT	A2J7 / A3J2	
A2E1	GND	A2E1/A3GND/A4E1/A5E1/A1E1	CB-900-50320-A2.8
PS1003	A1		
A1J1	28VDC OUT	A1J1 / A4J3	
A1J2	RETURN	A1J2 / A4J4	
A1J3	28VDC OUT	A1J3 / A2J3	
A1J4	RETURN	A1J4 / A2J4	
A1J5	AC OUT	A1J5 / A5J11	
A1J6	PS CONTROL	A1J6 / A5J10	
A1E1	GND	A1E1/A3GND/A4E1/A5E1/A2E1	
A1J1	28VDC OUT	A1J1 / A4J3	
A1J2	RETURN	A1J2 / A4J4	
A1J3	28VDC OUT	A1J3 / A2J3	
A1J4	RETURN	A1J4 / A2J4	
A1J5	AC OUT	A1J5 / A5J11	
A1J6	PS CONTROL	A1J6 / A5J10	
A1E1	GND	A1E1/A3GND/A4E1/A5E1/A2E1	

SIZE	CAGE CODE	DWG. NO.	REV
D	1GFQ7	050-50852-001	B
SCALE	NONE	SHEET 2 OF 2	

DC-0000-00010-0, REV C, 06/98