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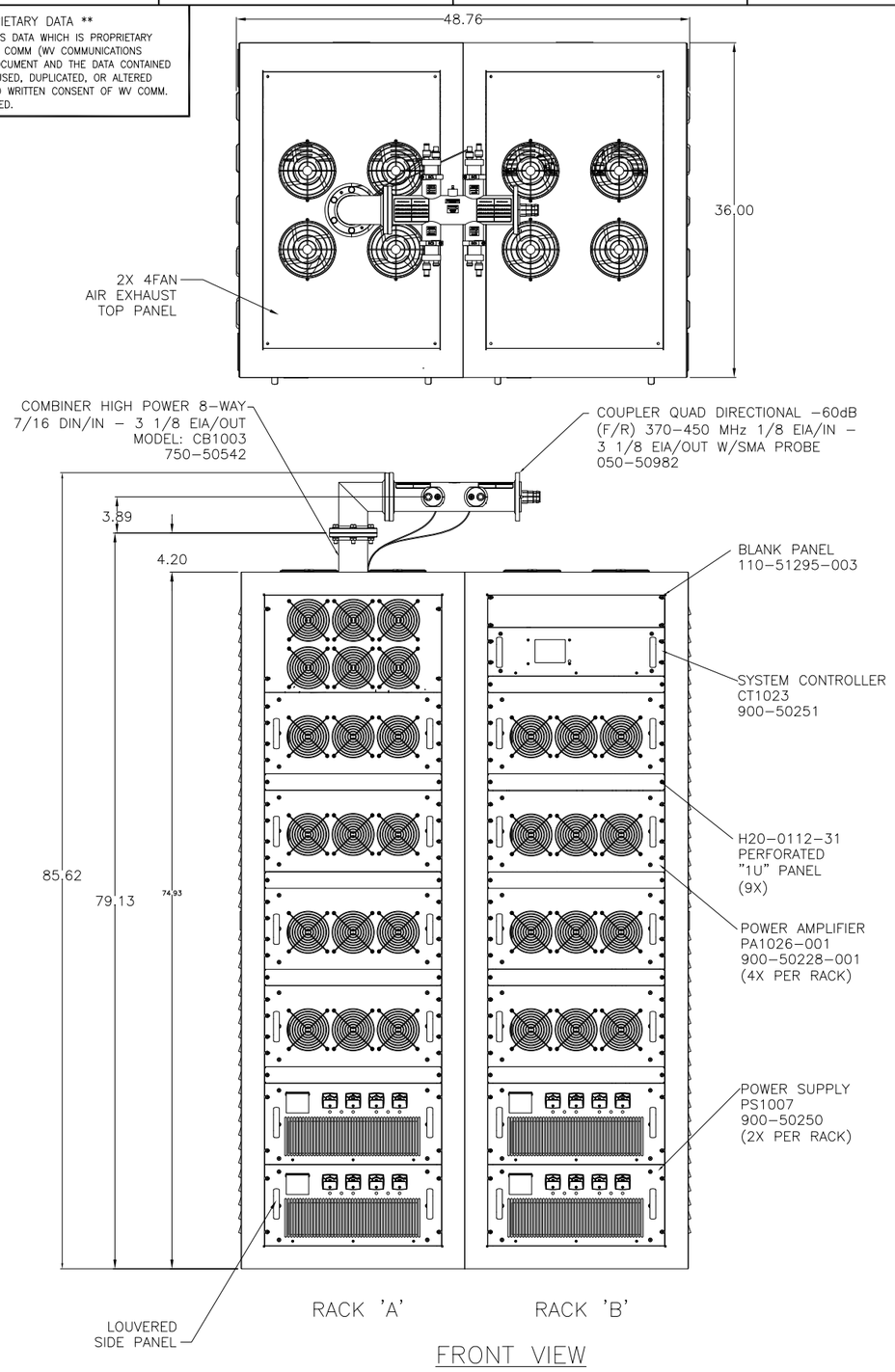
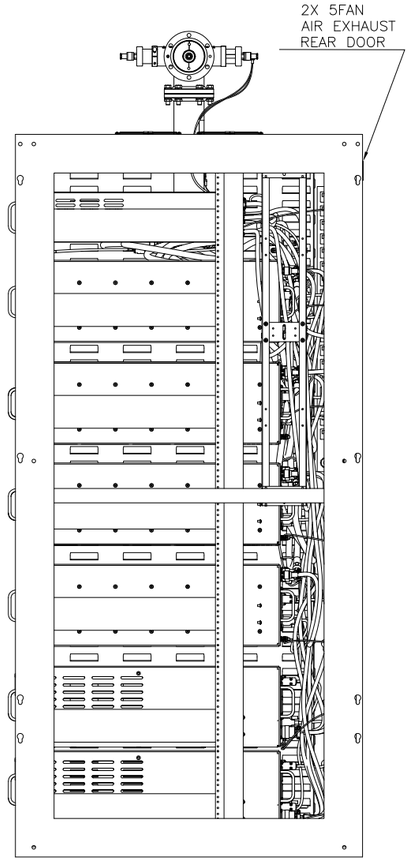
REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	RELEASED	7/24/2012	TT
	B	PER CWO-0200-020812	7/18/12	TT
	C	CHANGED DUAL COUPLER TO QUAD	8/25/15	TT



FRONT VIEW



SIDE VIEW
(SIDE PANEL REMOVED)

SPECIFICATIONS SUMMARY

OPERATING FREQUENCY RANGES:	370-450MHz
RF OUTPUT POWER:	10KW Minimum at P1dB Compression Point
RF GAIN:	75dB nominal
SMALL SIGNAL GAIN FLATNESS:	ALC: ±1.5dB Maximum into 1.05:1 VSWR VVA: ±2.5dB Maximum into 1.05:1 VSWR
RF INPUT POWER:	-5dBm to +3dBm
MAXIMUM RF INPUT POWER:	+10dBm Maximum W/O Damage
INPUT AND OUTPUT IMPEDANCE:	50Ω Nominal
INPUT VSWR:	1.50:1 Maximum (Ref 50Ω)
HARMONIC SIGNAL LEVELS:	60dBc Minimum Integral Low Pass Filter from 740 – 2700MHz
SPURIOUS SIGNAL LEVELS:	55dBc Minimum from 370-450MHz 80dBc Minimum from 1-370MHz & 450-3000MHz
RF OUTPUT CONNECTOR:	3 1/8" EIA Flange
OUTPUT POWER CONTROL:	23dB Minimum
RF OUTPUT TURN-ON-TIME:	50 mSec Maximum after RF power received
SWITCHING TIME:	50 mSec Maximum between any of the Outputs
LOCAL CONTROL:	Via Color Touchscreen LCD
REMOTE CONTROL:	Via RS-232 & Ethernet (UDP)
RF OUTPUTCOUPLED PORTS:	-70dBc Forward and Reflected
RF OUTPUT SAMPLE PORT:	-70dBc
COOLING:	Forced air via HPA integral Front Panel Intake and Rear Panel Exhaust Fans, Rack-Front/Top Fans
OVER TEMPERATURE PROTECTION:	8-Way Combiner Surface - 110°C Load – Per Bird Model 8645B115
TEMPERATURE RANGES:	Operating - +35 to +100°F Storage - +20 to +120°F
RELATIVE HUMIDITY	Operating - 20% to 60% (Non-Condensing) Storage – 10% to 90% (Non-Condensing)
ALTITUDE:	MSL to 70,000 Ft
AC INPUT POWER:	180-264VAC, 47-63Hz 3 Phase, Delta 4 Wire, at 28KW Maximum

900-50260	SYS1018
NEXT ASSEMBLY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES ARE:
FRACTIONS ± 1/64 | DECIMALS .XX±.01, .XXX±.005 | ANGLES ±0°30' | HOLES .XX±.005, .XXX±.002
MACHINED FINISH: 32 RMS
REMOVE BURRS .005 MAX
MATERIAL
FINISH
DO NOT SCALE DRAWING

APPROVALS		DATE
DRAWN	TONY T.	02/19/10
CHECKED	TONY T.	02/22/10
MECH ENGR	T.T.	02/22/10
ELEC ENGR	J.T.	02/22/10
PRODUCTION	A.M.	02/22/10
Q.A.	D.B.	02/22/10

WV Communications 1176 Tourmaline Dr. Newbury Park, CA

AMPLIFIER SYSTEM
370-450 MHz 10KW
MODEL: SYS1018

SIZE	CAGE CODE	DWG. NO.	REV
D	1GFQ7	050-50739	C

SCALE NONE SHEET 1 OF 2

REV C
DWG NO. 050-50739

DC-PRSM-00015-A, REV C, 06/08