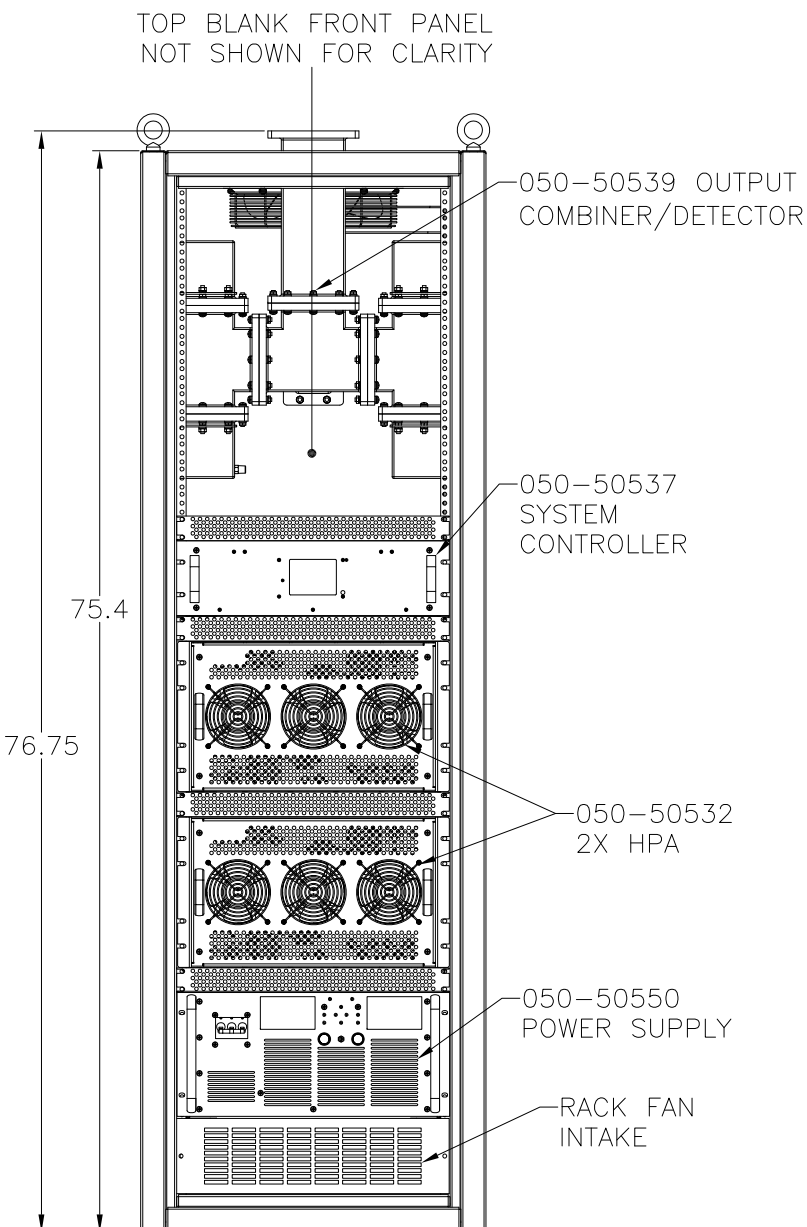


RACK FAN EXHAUST

RF OUT
CPR430G,
GROOVED
FLANGE WITH
O-RING SEAL



TOP BLANK FRONT PANEL
NOT SHOWN FOR CLARITY

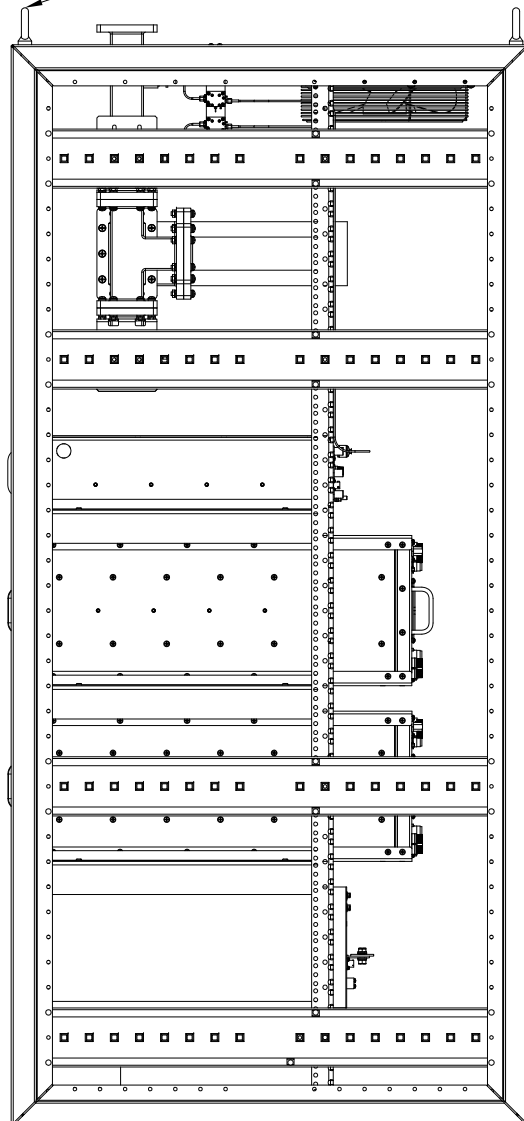
050-50539 OUTPUT
COMBINER/DETECTOR

050-50537
SYSTEM
CONTROLLER

050-50532
2X HPA

050-50550
POWER SUPPLY

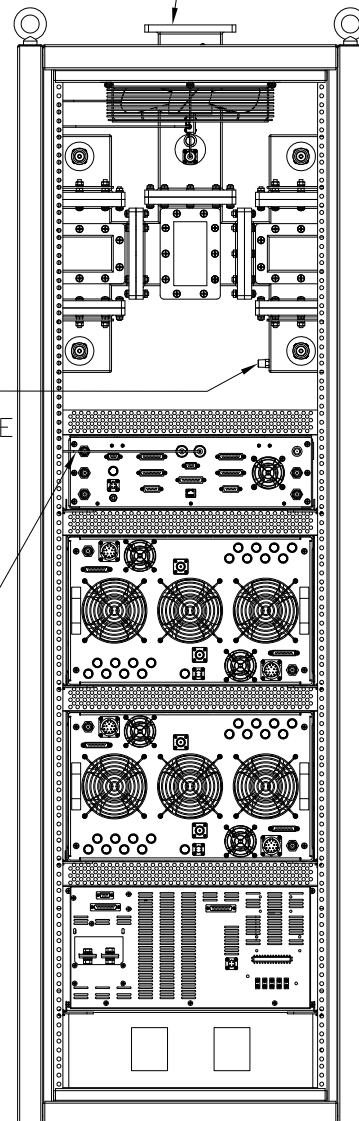
RACK FAN
INTAKE



EYE BOLT LIFT KIT

1/4" NPT
AIR PRESSURE
VALVE

RF IN
"N" FEMALE



REAR DOOR W/ FLUSH HANDLE
NOT SHOWN FOR CLARITY

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	RELEASED	05/11/06	T.T.
	B	PER ECO #06-0021	12/02/06	G.G.

SPECIFICATIONS SUMMARY

OPERATING FREQUENCY RANGES: 1750-1850MHz
RF OUTPUT POWER: 2.25KW Min at 1dB Compression
RF OUTPUT PROTECTION: Integral Output protected No Oscillation at any Phase Angle at any Load Impedance & Phase Angle
RF INPUT POWER: -7dBm +/- 3dB Range Nominal
MAXIMUM RF INPUT POWER: +12dBm Maximum W/O Damage
RF OUTPUT POWER GAIN FLATNESS: ±2dB Maximum over 1750-1850MHz Into 1.3:1 VSWR ±0.25dB Maximum over any 4MHz Band in the 1750-1850MHz Range Into 1.3:1 VSWR
RESIDUAL AM: 50dBc Maximum
RESIDUAL PHASE NOISE: 2 Deg RMS Maximum at 500Hz to 1MHz offset
INPUT AND OUTPUT IMPEDANCE: 50 Ohm Nominal
INPUT / OUTPUT VSWR: 2.0:1 Maximum (Ref 50 Ohm)
NOISE: -180dBc/Hz Maximum over 2.2-2.3GHz
SPURIOUS & HARMONICS LEVELS: -145dBc Maximum over 2.2-2.3GHz -55dBc Maximum in 1750-1850MHz -85dBc Maximum below 1750MHz, 1850-2200MHz & above 2,300MHz
RF OUTPUT CONNECTOR: Waveguide CPR430G Flange
OUTPUT POWER CONTROL: 25dB Range Minimum
DRAWER COOLING: Forced air via integral Front Panel Intake and Rear Panel Exhaust Fans
OVER TEMPERATURE PROTECTION: Thermostat Shut-Off Indication at +77 Deg C Heatsink Temperature
MONITORING & CONTROL: Via Front Panel Color LCD Touchscreen or Remote Via Ethernet TCP/IP Protocol
MTBF: 10,000 Hours Nominal
MTRR: 1.25 Hours Nominal
SYSTEM PRESSURIZATION: 2 PSI Nominal Dry Air Customer supplied
TEMPERATURE RANGES: Operating +15 to +40°C
ALTITUDE: MSL to 10,000 Ft
DRAWERS CHASSIS DEPTH: 26.75" Maximum
AC INPUT POWER: 190-250VAC, 47-63Hz Three (3) Phase at 10KVA Maximum (7KVA Typical at 2.25KW RF Output Power)

A

REMOVABLE FLUSH SIDE PANELS
NOT SHOWN FOR CLARITY

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES ARE: FRACTIONS DECIMALS ANGLES HOLES ± 1/64 .XX±.01 ±0°30' .XX±.005 .XXX±.005 .XXX±.001		APPROVALS		DATE
		DRAWN	TONY T.	05/11/06
		CHECKED	G.GODDARD	05/11/06
		MECH ENGR	T.T.	05/11/06
		ELEC ENGR	JT	05/11/06
900-5178	SYS1000	PRODUCTION	AM	05/11/06
	NEXT ASSEMBLY USED ON	Q.A.	DB	05/11/06
APPLICATION		DO NOT SCALE DRAWING		

WV Communications 1176 Tourmaline Dr. Newbury Park, CA

AMPLIFIER SYSTEM
1750-1850 MHz 2.25KW
P/N SYS-1000

SIZE	CAGE CODE	DWG. NO.	REV
D	1GFQ7	050-50538	B
SCALE	NONE	SHEET 1 OF 2	

DWG. NO. 050-50538 REV. B