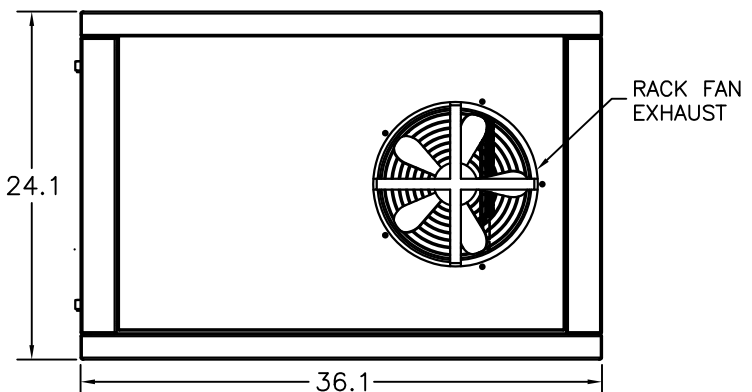


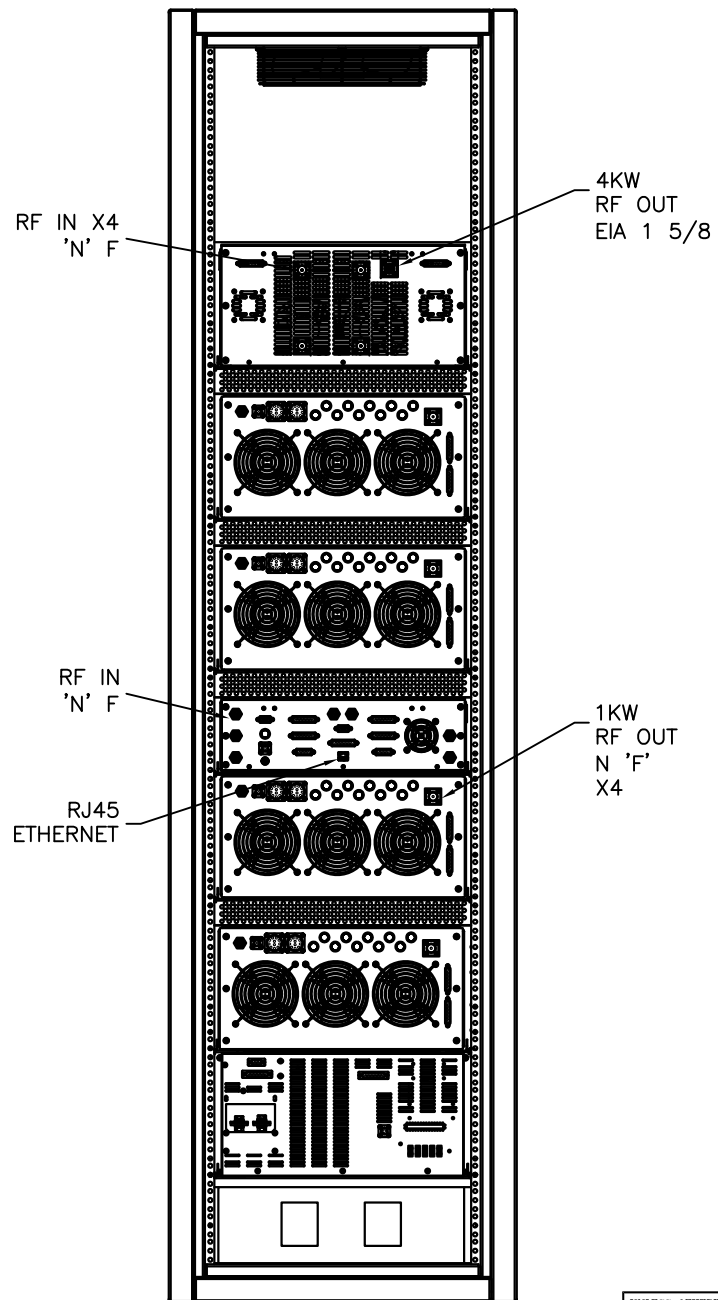
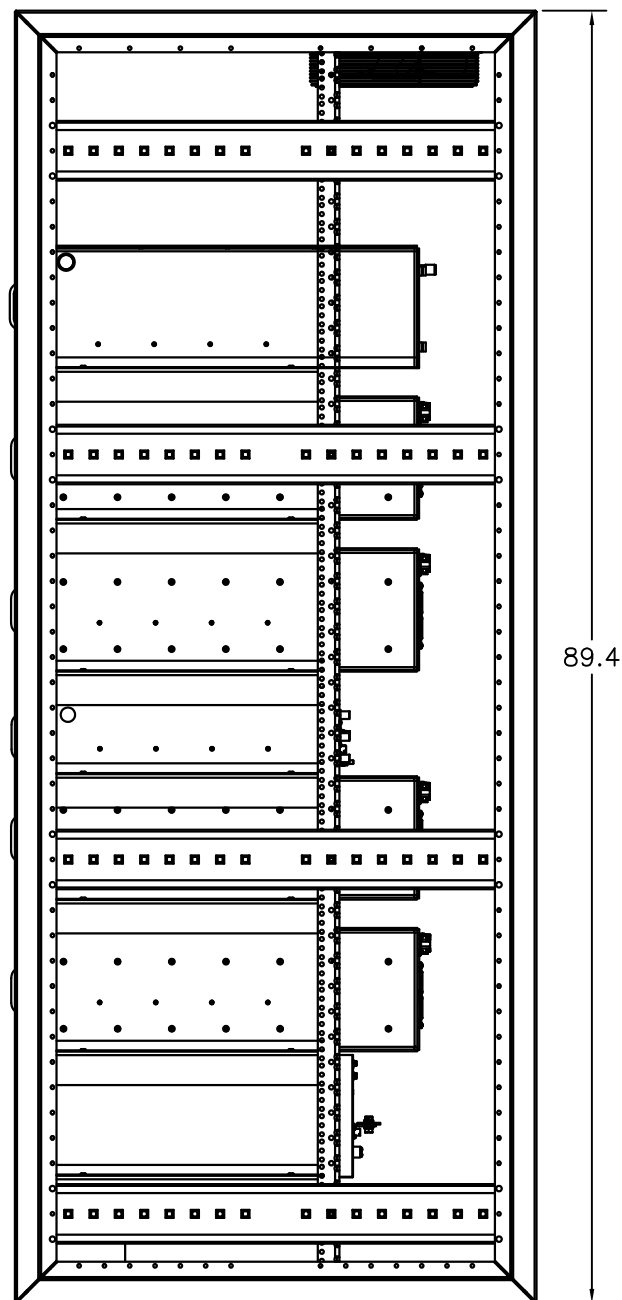
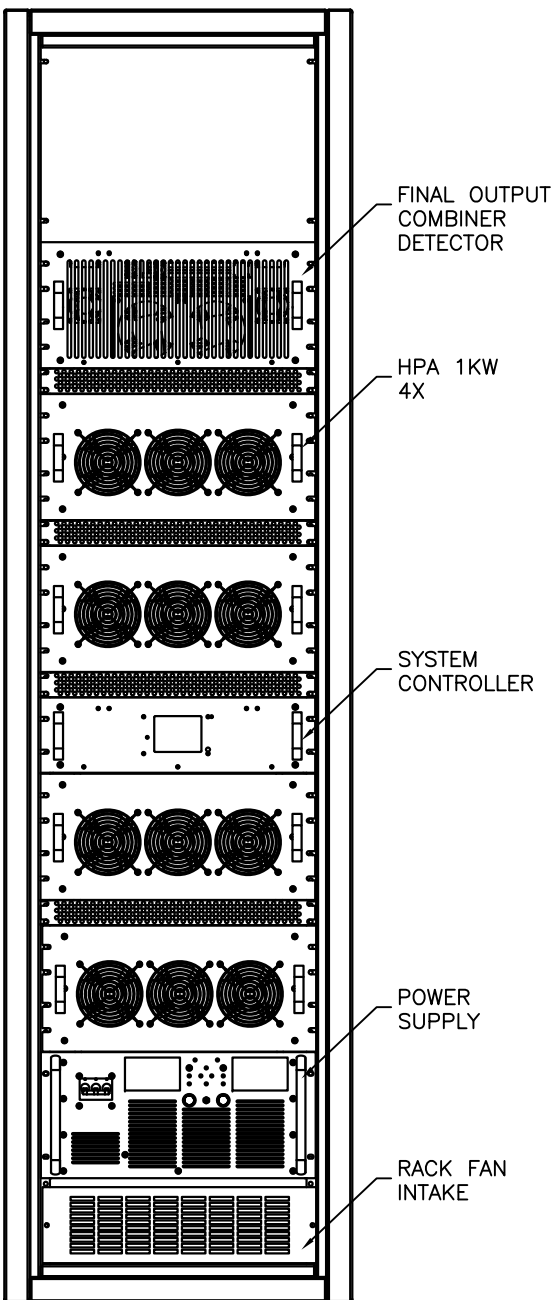
8 7 6 5 4 3 2 1

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| REVISIONS | | | | |
|-----------|-----|------------------------|----------|----------|
| ZONE | REV | DESCRIPTION | DATE | APPROVED |
| | A | RELEASED | 05/11/05 | T.T. |
| | B | REVISED SPECIFICATIONS | 08/18/06 | T.T. |



D
C
B
A



SPECIFICATIONS SUMMARY

OPERATING FREQUENCY RANGE: 370-450MHz
RF OUTPUT POWER: 4KW Min at 1dB Compression
RF OUTPUT PROTECTION: Integral Output Isolator protected No Oscillation at any Phase Angle at any Load Impedance
NOMINAL RF INPUT POWER: -5dBm to +3dBm
MAXIMUM RF INPUT POWER: +10dBm Maximum W/O Damage
SMALL SIGNAL GAIN FLATNESS: ±1.5dB Maximum Into 1.05:1 VSWR
INPUT AND OUTPUT IMPEDANCE: 50 Ohm Nominal
INPUT VSWR: 2.0:1 Maximum (Ref 50 Ohm)
HARMONIC SIGNAL LEVELS: Integral Low Pass Filter
 -90dBc Maximum from 1100 – 2750MHz
SPURIOUS SIGNAL LEVELS: -55dBc Maximum
RF OUTPUT CONNECTOR: EIA 1 5/8
OUTPUT POWER CONTROL: 23dB Minimum
RF OUTPUT TURN-ON-TIME: <50 mSec after RF power received
LOCAL CONTROL: Via Color Touchscreen LCD Display
REMOTE CONTROL: Via RS-232C, Ethernet UDP/IP
COOLING: Forced air
OVER TEMPERATURE PROTECTION: Thermostat Shut-Off Indication at +77 Deg C Heatsink/Combiner Temperature
TEMPERATURE RANGES: Operating 0 to +50°C
ALTITUDE: MSL to 70,000 Ft
CHASSIS DEPTH: 26.75" Maximum
AC INPUT POWER: 190-250VAC, 47-63Hz 3 Phase at 10KVA Maximum
WEIGHT: ~1000 Lbs

D
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| UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES ARE: | | | |
|---|----------|--------|-------|
| FRACTIONS | DECIMALS | ANGLES | HOLE |
| ± 1/64 | .01 | ±0°30' | ±.005 |
| MACHINED FINISH: 32 RMS REMOVE BURRS .005 MAX | | | |

| APPROVALS | DATE |
|-------------------|----------|
| DRAWN TONY T. | 05/11/05 |
| CHECKED G.GODDARD | 05/11/05 |
| MECH ENGR T.T. | 05/11/05 |
| ELEC ENGR JT | 05/11/05 |
| PRODUCTION AM | 05/11/05 |
| Q.A. DB | 05/11/05 |

WV Communications 1176 Tourmaline Dr. Newbury Park, CA

SOLID STATE HIGH POWER AMPLIFIER SYSTEM
 370-450 MHz, 4KW
 P/N: PA1004

| | | | |
|------------|-----------------|--------------------|-------|
| SIZE D | CAGE CODE 1GFQ7 | DRG. NO. 040-50009 | REV B |
| SCALE NONE | SHEET 1 OF 1 | | |

| | |
|---------------|----------------------|
| 900-50180 | |
| NEXT ASSEMBLY | USED ON |
| APPLICATION | DO NOT SCALE DRAWING |

8 7 6 5 4 3 2 1

REV B
 DWG NO. 040-50009
 10-2005-0000-04 REV C 08/06