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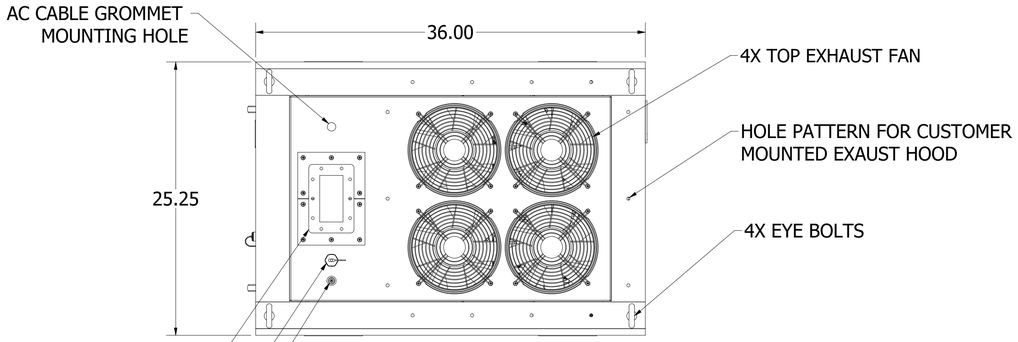
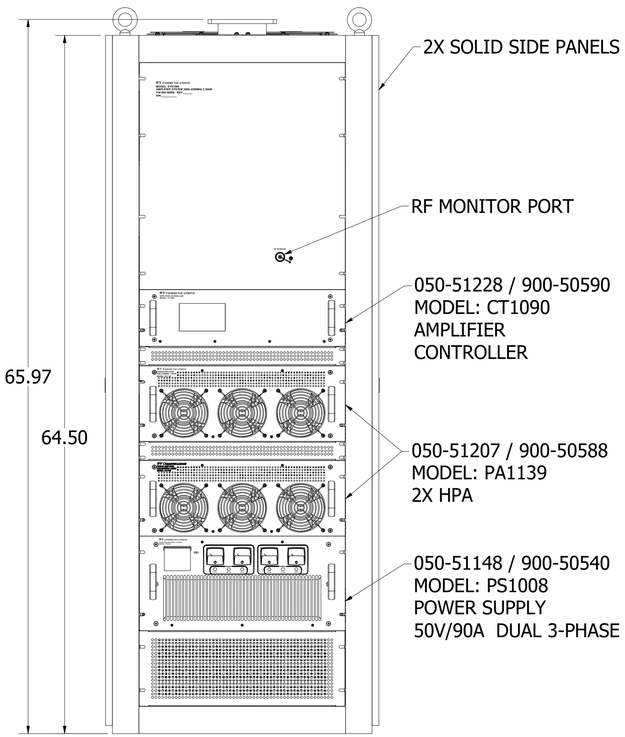
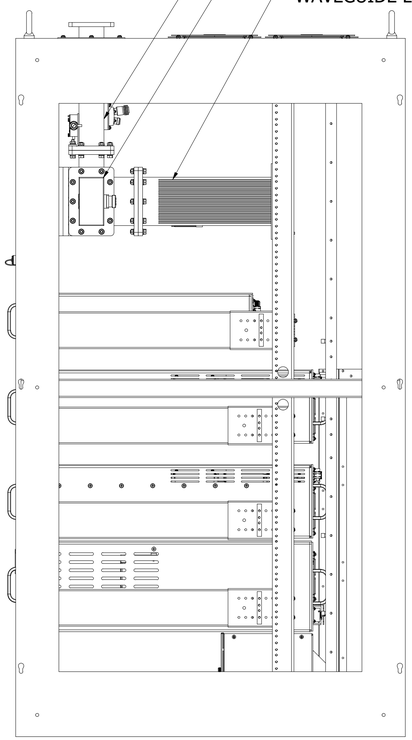
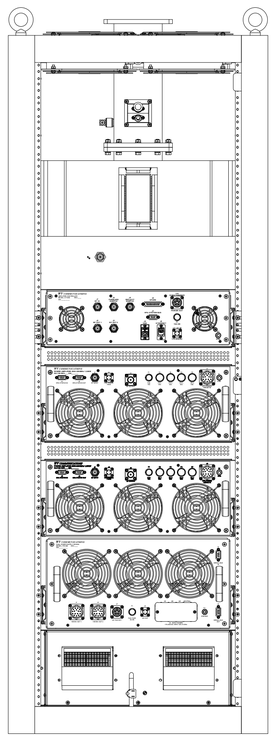
REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	RELEASED	12/15/2023	TT



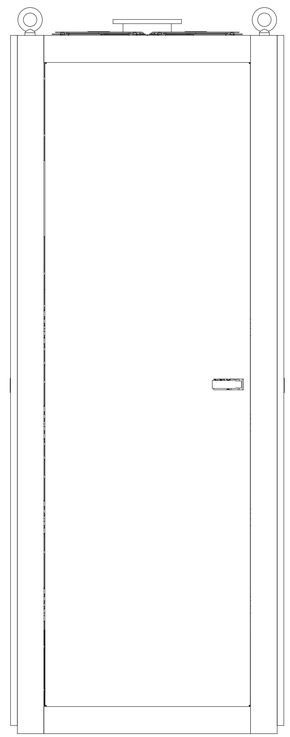




REMOVABLE SIDE PANEL
NOT SHOWN FOR CLARITY



REMOVABLE REAR DOOR
NOT SHOWN FOR CLARITY



SPECIFICATIONS SUMMARY

OPERATING FREQUENCY RANGE:	2000-2290MHz
RF OUTPUT POWER:	2.25kW Minimum at P3dB Compression Point
RF OUTPUT MONITOR:	-60dBc Nominal
RF OUTPUT PROTECTION:	Integral Output protection – No Oscillation at any Load & Phase angle
RF INPUT POWER:	0dBm Minimum +3dB Range
RF GAIN:	70dB Nominal
RF GAIN STABILITY/TIME:	±0.25dB Maximum over 24 hours
RF GAIN STABILITY/TEMPERATURE:	±0.25dB Maximum over 10 to 40°C ±0.5dB Maximum over 10 to 50°C
RF GAIN SLOPE:	0.2dB/MHz Maximum over any 5MHz band
MAXIMUM RF INPUT POWER:	+10dBm Maximum W/O Damage
RF OUTPUT POWER GAIN FLATNESS:	±0.75dB Maximum over the Band Into 1.3:1 Load VSWR ±0.25dB Maximum over any 4MHz in band
RESIDUAL AM:	-50dBc Maximum over 20 – 400Hz -60dBc Maximum over 400Hz – 2kHz -80dBc Maximum over 2kHz – 500kHz
RESIDUAL PHASE NOISE:	2° RMS Maximum at 500Hz to 1MHZ offset
AM/PM NOISE:	3° /dB Maximum
PHASE NOISE:	Exceeds requirements of IESS-308/309 by 10dB at 10dB back-off of rated power
INPUT AND OUTPUT IMPEDANCE:	50Ω Nominal
INPUT / OUTPUT VSWR:	1.5:1 Maximum (Ref 50Ω)
GROUP DELAY:	3.0nSec/MHz Maximum Linear 2.0nSec/MHz2 Maximum Parabolic 4.0nSec Peak-Peak Ripple Maximum
HARMONICS LEVELS:	-60dBc Maximum
SPURIOUS LEVELS:	-60dBc Maximum
OUTPUT INTERMODULATION:	-25dBc Maximum with 2 equal carriers 5MHz apart at 7dB below rated level
RF OUTPUT CONNECTOR:	Waveguide CPR430 Flange
OUTPUT POWER CONTROL RANGE:	25dB Minimum in 0.1dB steps
DRAWER COOLING:	Forced air via integral Cabinet bottom / Front Panel Intake and Rack top / rear Panel Exhaust fans
OVER TEMPERATURE PROTECTION:	Thermostat Shut-off Indication at +77°C Heatsink and Power Heatsink Temperatures
MONITORING & CONTROL:	Via Front Panel Color LCD Touchscreen or Remote Via Ethernet UDP Protocol & Serial RS-232 or RS-422
MTBF:	10,000 Hours Nominal
MTTR:	1.25 Hours Nominal
GRACEFUL DEGRADATION:	Integral Output protection – Protection of Output Transistor Failures, Redundant 1:1 Power Supply design
TEMPERATURE RANGES:	Operating 10 to +40°C Non-Operating – 0 to +70°C
ALTITUDE:	Operating: MSL to 10,000 Ft Non-Operating: to 40,000
DRAWERS CHASSIS DEPTH:	30.0" Maximum
AC INPUT POWER:	170-264VAC, 47-63Hz Three (3) Phase, 4 Wire Delta at 10kW Maximum (7kW Typical)

900-50589	SYS1005
NEXT ASSEMBLY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES ARE:
FRACTIONS ± 1/64 | DECIMALS X± .1, XX± .01, XXX± .005 | ANGLES ± 0°30' | HOLES XX± .005, XXX +.003 -.001
MACHINED FINISH: 32 RMS
REMOVE BURRS .005 MAX
MATERIAL: - / -
FINISH: - / -
DO NOT SCALE DRAWING

APPROVALS		DATE
DRAWN	FREDERICK B.	12/15/2023
CHECKED	TT	12/15/2023
MECH ENGR	FB	12/15/2023
ELEC ENGR	LU	12/15/2023
PRODUCTION	AM	12/15/2023
Q.A.	SG	12/15/2023

WV Communications 1125 A Business Center Circle Newbury Park, CA

AMPLIFIER SYSTEM
2000-2290MHz 2250W
MODEL: SYS1005

SIZE	CAGE CODE	DWG. NO.	REV
D	1GFQ7	050-51227	A

SCALE: NONE | MODEL NO. | SHEET 1 OF 1

REV A
DWG NO. 050-51227