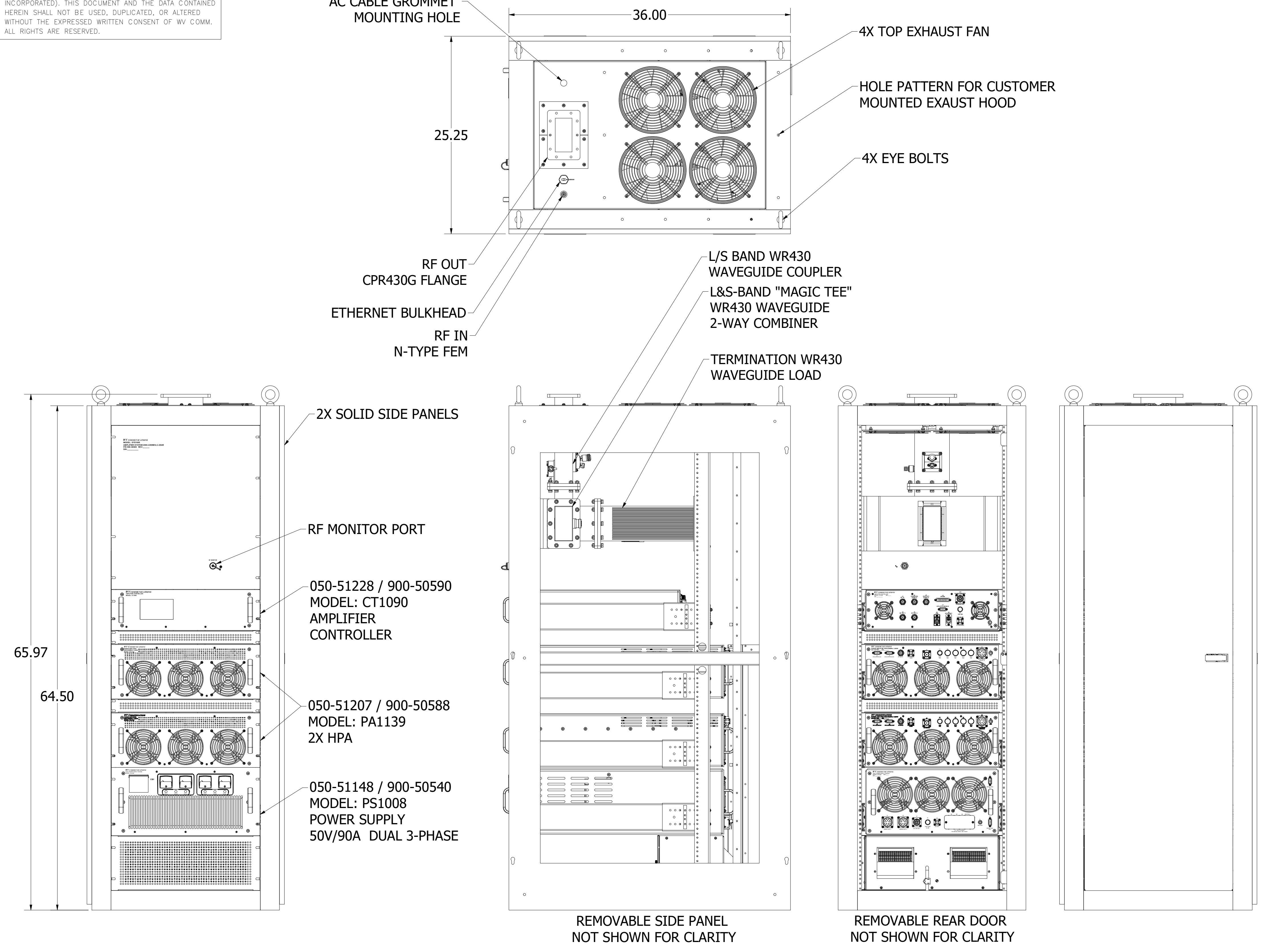


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REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	RELEASED	12/15/2023	TT



**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/MHz<sup>2</sup> Maximum Parabolic  
 4.0nSec Peak-Peak Ripple Maximum

**HARMONICS LEVELS:** -60dBc Maximum

**SPURIOUS LEVELS:** -60dBc Maximum

**OUTPUT INTERMODULATION:** -29dBc Maximum with 2 equal carriers 5MHz apart at 7dB below rated level

**RF OUTPUT CONNECTOR:** Waveguide CPR430G 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

**MTRR:** 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)

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES ARE:		APPROVALS	DATE
FRACTIONS	DECIMALS	ANGLES	HOLES
± 1/64	.XX ± .01	± 0°30'	.XX ± .005
	.XXX ± .005		.XXX ± .003
	.XXX ± .005		.XXX ± .001
MACHINED FINISH: 32 RMS REMOVE BURRS .005 MAX MATERIAL			
FINISH			
900-50589	SYS1005		
NEXT ASSEMBLY	USED ON		
APPLICATION		DO NOT SCALE DRAWING	

APPROVALS	DATE	WV Communications			
DRAWN: FREDERICK B.	12/15/2023	1125 A Business Center Circle Newbury Park, CA			
CHECKED: TT	12/15/2023	<b>AMPLIFIER SYSTEM</b> 2000-2290MHz 2250W MODEL: SYS1005			
MECH ENGR: FB	12/15/2023				
ELEC ENGR: LU	12/15/2023				
PRODUCTION: AM	12/15/2023				
Q.A.: SG	12/15/2023	SIZE: D	CAGE CODE: 1GFQ7	DWG. NO.: 050-51227	REV: A
		SCALE: NONE	MODEL NO.:	SHEET: 1 OF 1	