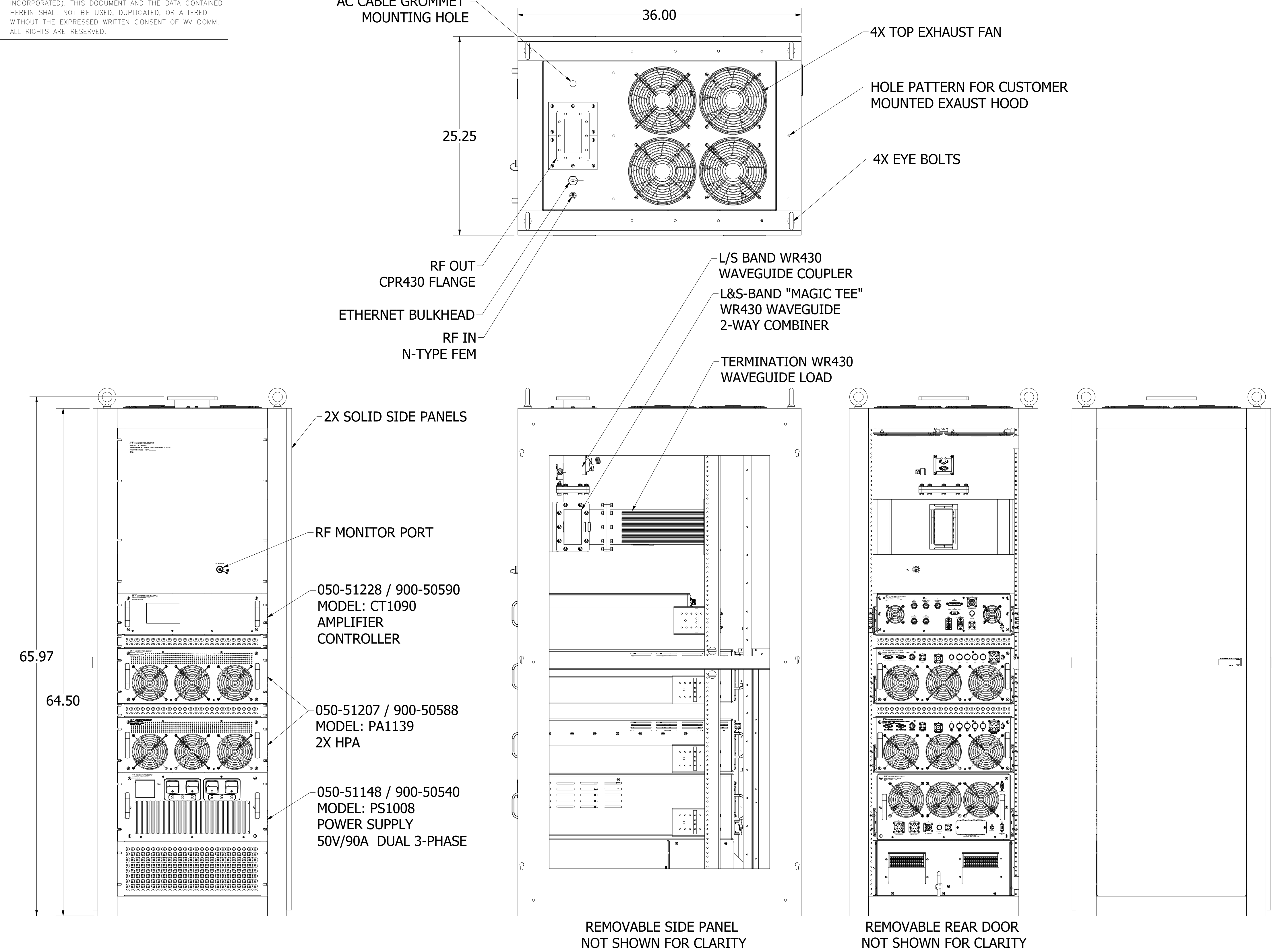


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REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	RELEASED	12/15/2023	TT



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/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)

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 ± .001		.XXX ± .001
MACHINED FINISH: 32 RMS REMOVE BURRS .005 MAX MATERIAL			
FINISH			
900-50589	SYS1005		
NEXT ASSEMBLY	USED ON		
APPLICATION		DO NOT SCALE DRAWING	

SIZE	CAGE CODE	DWG. NO.	REV
D	1GFQ7	050-51227	A
SCALE	NONE	MODEL NO.	SHEET
			1 OF 1

WV Communications 1125 A Business Center Circle
 Newbury Park, CA

AMPLIFIER SYSTEM
 2000-2290MHz 2250W
 MODEL: SYS1005

DWG. NO. 050-51227