HD35265
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Suitable for linear CW and composite signal channel modulation standards & applications
Designed for X-Band narrow band high power applications
High power advanced class A/AB linear GaN devices
Rack cabinet mounted system
Built-in protection circuits, forward & reflected RF Sample ports
High reliability and ruggedness with extensive monitoring & protection circuits
All remote-control platforms included
High efficiency, with unprecedented reliability and ruggedness
Warranty - 3 years for all parts & labor

ELECTRICAL SPECIFICATIONS : 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	9.7 ±0.15 GHz	
Rated Output Power @ Psat	5 KW Min	
Power Gain	67 dB Min	0dBm or less for rated Pout
Power Gain Flatness	2.0 dB p-p	Constant input power
Gain Adjustment Range	25 dB Min	
Input & Output impedance/Return Loss	-10 dB Max	
2-Tone Intermodulation (IMD)	-30 dBc Typ	57dBm/Tone, Δ = 1MHz
Harmonics	-40 dBc Max	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	Qty 2: 120/208 VAC, 3-Ph, 47 - 63 Hz	Opt: 230/400VAC, 3-Ph
Power Consumption	25KW Per-input (50 KW Max total)	<35KW Typ @ rated Pout
Input Power Protection	+3 dBm Max [1]	
Load VSWR Protection	∞ : 1 [2]	Foldback @ preset limit

1 Units with optional digital monitor and control, for basic units <10 Sec without damage
2 100% of rated power without foldback up to 5 : 1 mismatch above which would limit to 1000 Watts reflected power. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	up to 95 %	Non-condensing
Altitude	3000 meters	
Shock & Vibration	Normal transport[3]	

3 MIL Spec available for quotation

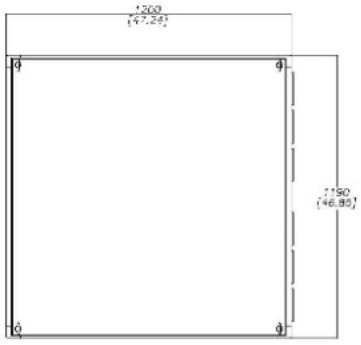
MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	2 x 45U Rack Cabinet	
Weight	600 lbs. Nom. Per-Cabinet	
RF Safety Interlock	Rear Panel	Contact open Interlock enable
RF Connectors In / Out Forward & Reflected Sample Ports	Type N-F / WR90 Type N-F	RF Input/Samples Front Panel Std. RF Output Rear Panel Std
Cooling	Built in forced air	Air entry in front /out rear panel
OPTIONAL: Digital Monitor & Control (DMC) FWD, REV, VSWR, GAIN, ALC, V & I, TEMP, Optional Safety Interlock (INT)	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface Open=STBY/Short=RFON	IEEE rear panel BNC-F rear panel

338 Jericho Tpk, Unit 387 Syosset, NY 11791 Phone: 631-588-3877
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Specifications subject to change without notice.
Specifications and drawings may vary with selected options.

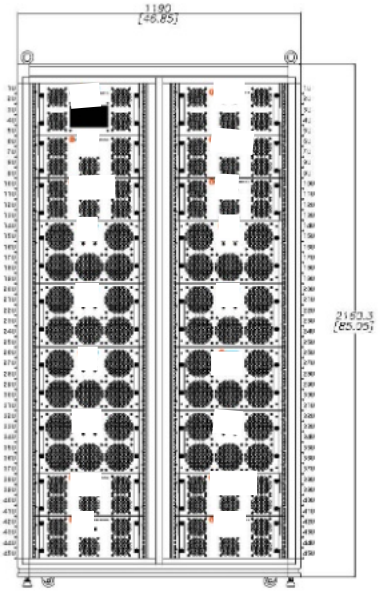
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OUTLINE DRAWING
45U DOUBLE RACK - SYSTEM VIEW



Top View

1. Rack : SHR-D45SL(B)
   - 45U Double Rack(Black)
2. HPA SYSTEM : 6U 8ea
3. POWER SUPPLY SYSTEM : 5U 2ea
4. COOLING SYSTEM : 4U 8ea
5. UNIT : mm / [inch]



Front View



Side View



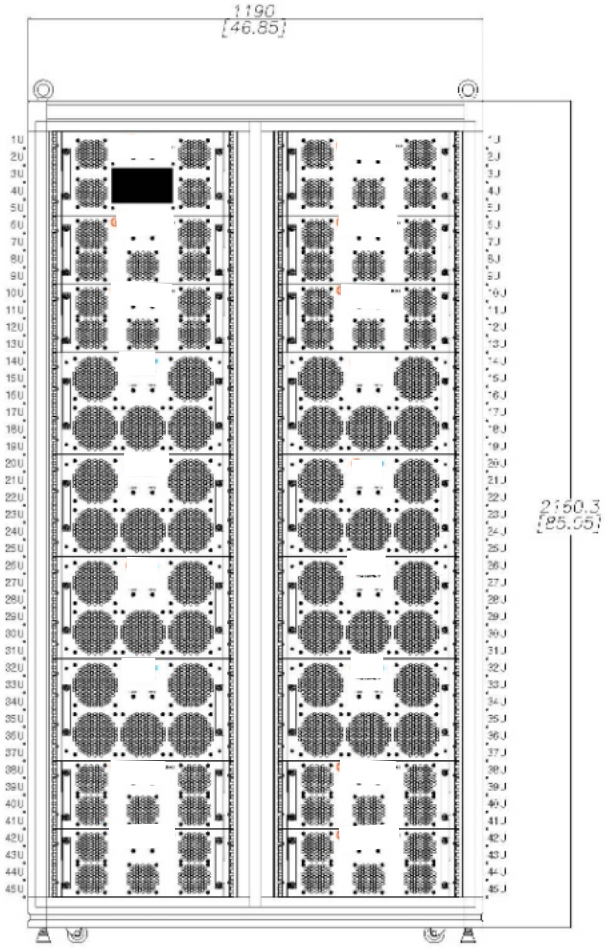
Rear View

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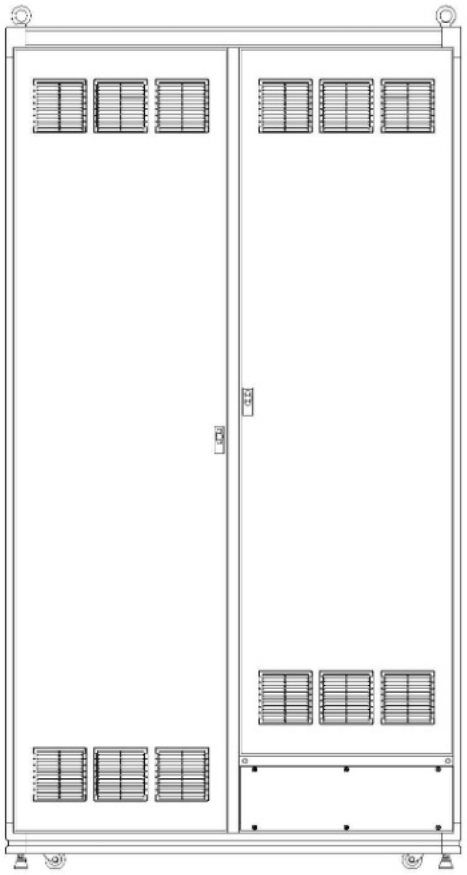
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OUTLINE DRAWING
FRONT & REAR VIEW



Front View



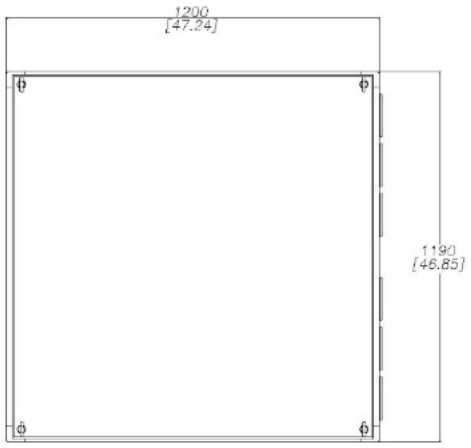
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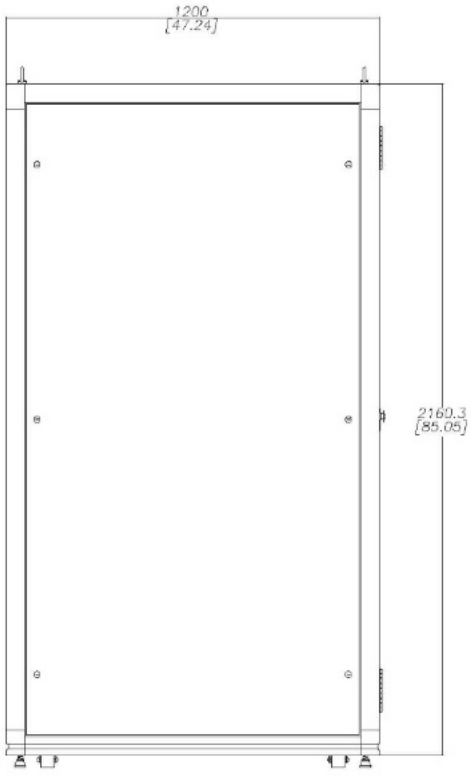
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OUTLINE DRAWING
SIDE & TOP VIEW



Top View



Side View

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