HD Communications Corp.

HD32115
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Rack mounted system
Class AB linear GaN design
Instantaneous wide bandwidth
Suitable for all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification					Notes
Operating Frequency Range	2.5 - 4.8 GHz					
Power Output	450 Watt Min					CW
Power Gain	55 dB Min					
Power Gain Flatness	3.0 dB p-p Max					Constant input power
Gain Stability - Constant Temp and RF input	0.5 dBp-p					Over 12 hrs after 30 minutes
Gain Adjustment Range	0 - 20 dB Min					
Input / Output Return Loss	10 dB Min					Relative to 50 Ohm
Harmonics	-30 dBc Typ					At rated output power
Non-harmonics Spurious	-50 dBc Max					
Modulation Capability	AM, FM, Pulse					
Pulse Modulation Characteristics	**Width**	**Duty**	**PRF**	**Rise/Fall**	**Droop**	
		4 % - CW	300Hz-500KHz	40 nS Typ	0.3 dB	
Operating Voltage	3 phase, 5wire (3 Phase, Neutral, Gnd) 415VAC ± 10%, 50Hz (corresponding to single phase of 230VAC)					
Power Consumption	5000 Watt Max					At rated Pout
Max Input Power	+3 dBm					10 Sec without damage
Load VSWR Protection	2.5 : 1					No damage and Trip/Alarm

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	+10 to +40 °C	
Storage Temperature	-20 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensing
Sound Level	65 dBa @ 1 meter	

MECHANICAL SPECIFICATIONS

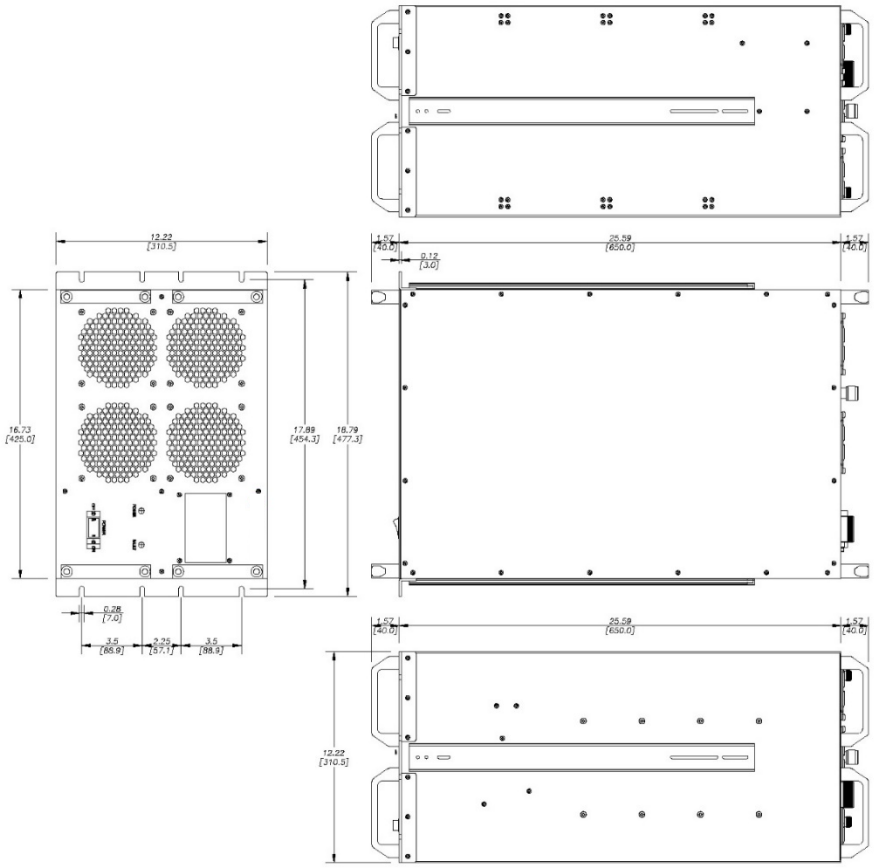
Parameter	Specification	Notes
Dimensions	SSPA 7U + Liquid cooler 3U	Installed in a rack cabinet
Weight	-	
RF Connectors In / Sample Port	Type-N Female	Rear panel
RF Connectors Output	Type-N to - WR-229 and WR-340	Interchangeable
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Liquid	
Option: Digital Monitor & Control LCD: FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	1 Ethernet RJ-45 circular connector TCP/IP 1 RS422/485 D-dub 9S port for redundancy Optional GPIB (IEEE) interface	

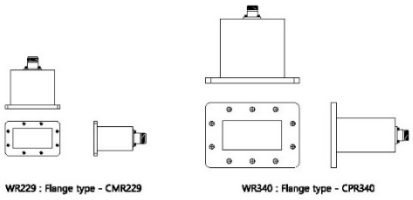
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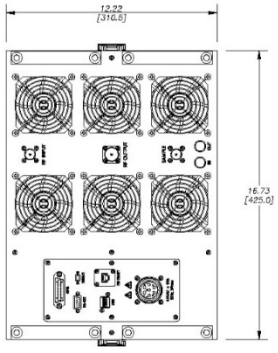
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OUTLINE DRAWING - SSPA







* UNIT : inch/[mm]

*** Note**

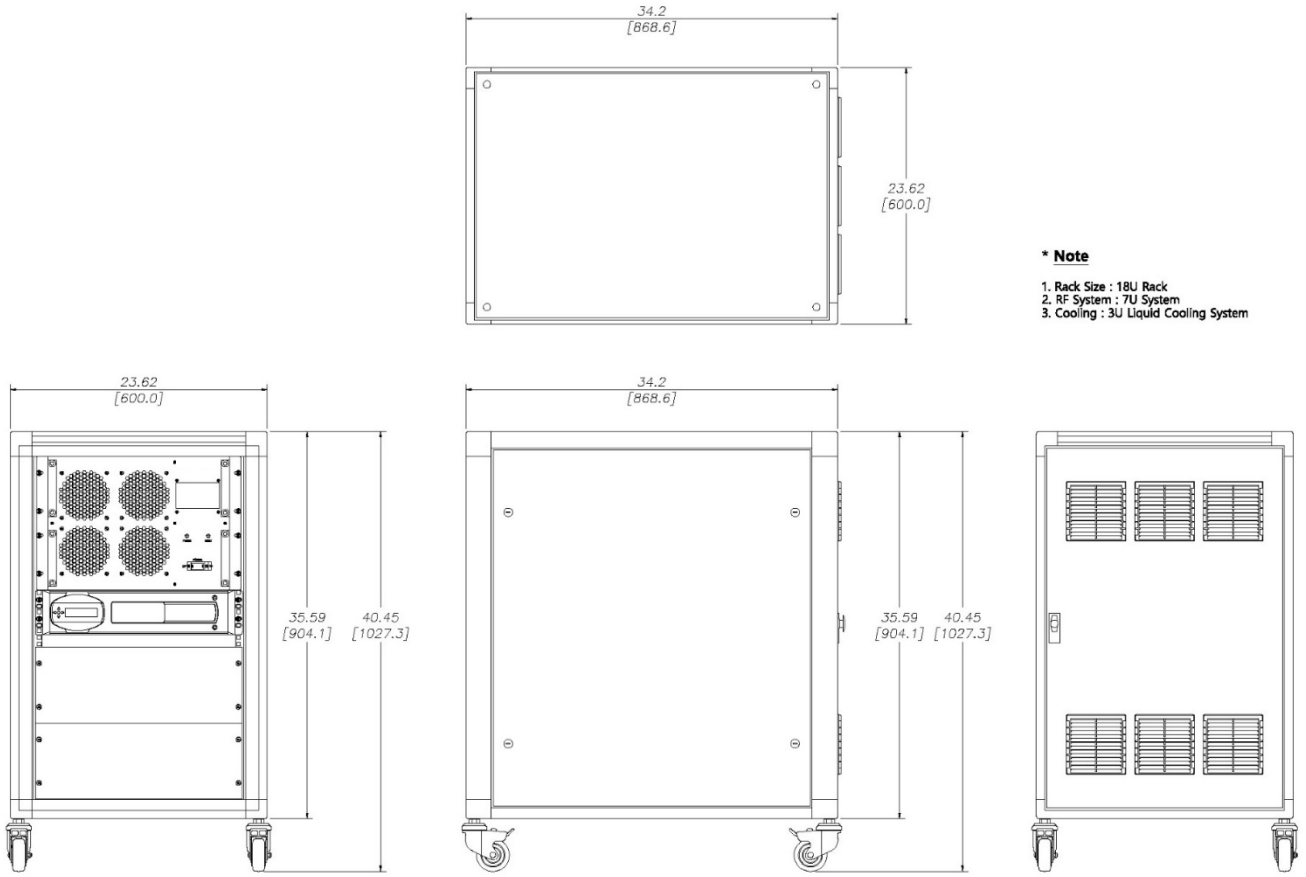
1. System Hight : 7U
2. RF Input : N type Female
3. RF Output : N type Male(with waveguide coaxial adapter)
   - WR229 to N type Female(CMR229 Flange)
   - WR340 to N type Female(CPR340 Flange)
4. RF Sample : N type Female
5. AC Power : 5wire 415VAC ± 10% 50Hz 3phase
6. Cooling : Liquid Cooling System

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OUTLINE DRAWING – RACK CABINET WITH LIQUID COOLING UNIT



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