HD32144
SOLID STATE HIGH POWER PULSE AMPLIFIER

FEATURES

Small and light weight rack mounted chassis
Class AB linear GaN hybrid design
Designed for narrow X-Band high power pulse applications
Solid-State Amplifier for TWT Driver
Built-in protection circuits
Universal voltage AC power supply
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS : 50Ω, 25°C

Parameter	Specification			Notes	
Operating Frequency	11.424 ±0.1 GHz				
Peak Power Output	500 Watt Min			Peak Pulse	
Pulse Characteristics	**Width**	**PRF**	**Droop**	**Rise/Fall**	**Droop**
	10 µS	200 Hz	<1 dB	<75 nS Typ	<1 dB
Power Gain	57 dB Typ				
Input Return Loss	-14 dB Max				
Harmonics	-30 dBc Typ			At rated Pout	
Spurious	-60 dBc Max			Non-harmonics	
Input Power Protection	+3 dBm Max				
Load VSWR Protection	5 : 1 Max			Foldback @ preset limit	
Operating Voltage	100 - 240 VAC			50 - 60Hz	
Efficiency	15 % Min				

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensing

MECHANICAL SPECIFICATIONS

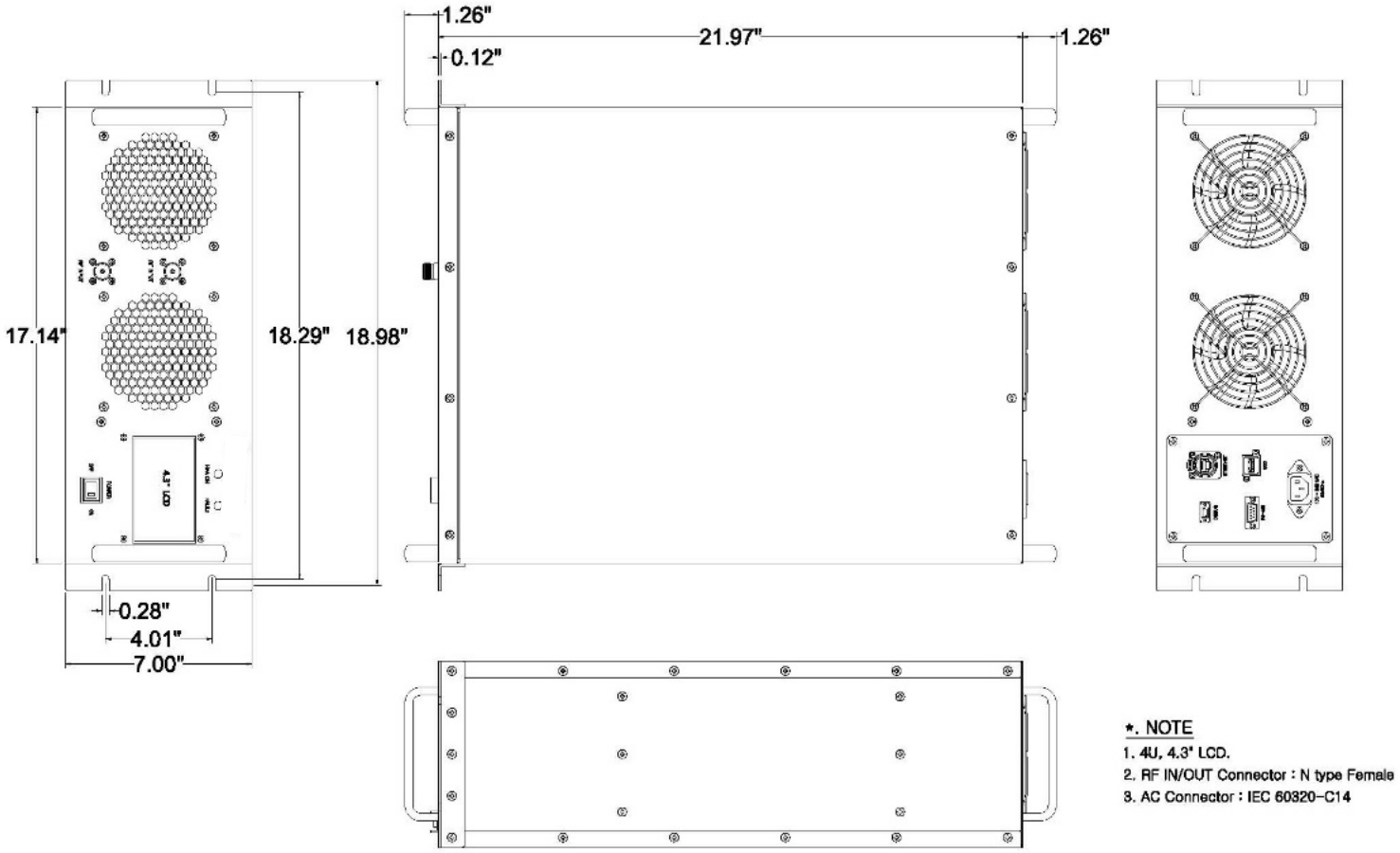
Parameter	Specification	Notes
Dimensions W x H x D	421 x 175 x 600 mm	R4U - Excluding connectors
Weight	25 Kg.	
RF Connectors In/Out	Hi Freq. SMA-F / WR-90 WG	Front or rear panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Built in Fan Cooling	Variable speed
CONTROLLER: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface	

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Specifications subject to change without notice.
Specifications and drawings may vary with selected options.

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OUTLINE DRAWING



*. NOTE
1. 4U, 4.3" LCD.
2. RF IN/OUT Connector : N type Female
3. AC Connector : IEC 60320-C14

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