HD31558
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

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



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	400 - 600 KHz	
Power Output @ Psat	2000 Watt Typ	CW
Power Output @ P1dB	1000 Watt Typ	
Power Gain	63 dB Nom	
Power Gain Flatness	3.0 dB p-p Max	Constant input power
Input Return Loss	10 dB Min	Relative to 50 Ohm
Harmonics	-18 dBc Max	At rated output power
Non-Harmonics Spurious	-60 dBc Max	Carrier offset >100KHz
Operating Voltage	100 - 240 VAC Nom	50/60 Hz ±6%
Power Consumption	7000 Watt Max	At rated output
Max Input Power protection	+3 dBm	<10 Seconds
Load VSWR Protection	10 : 1	<1 Minute

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

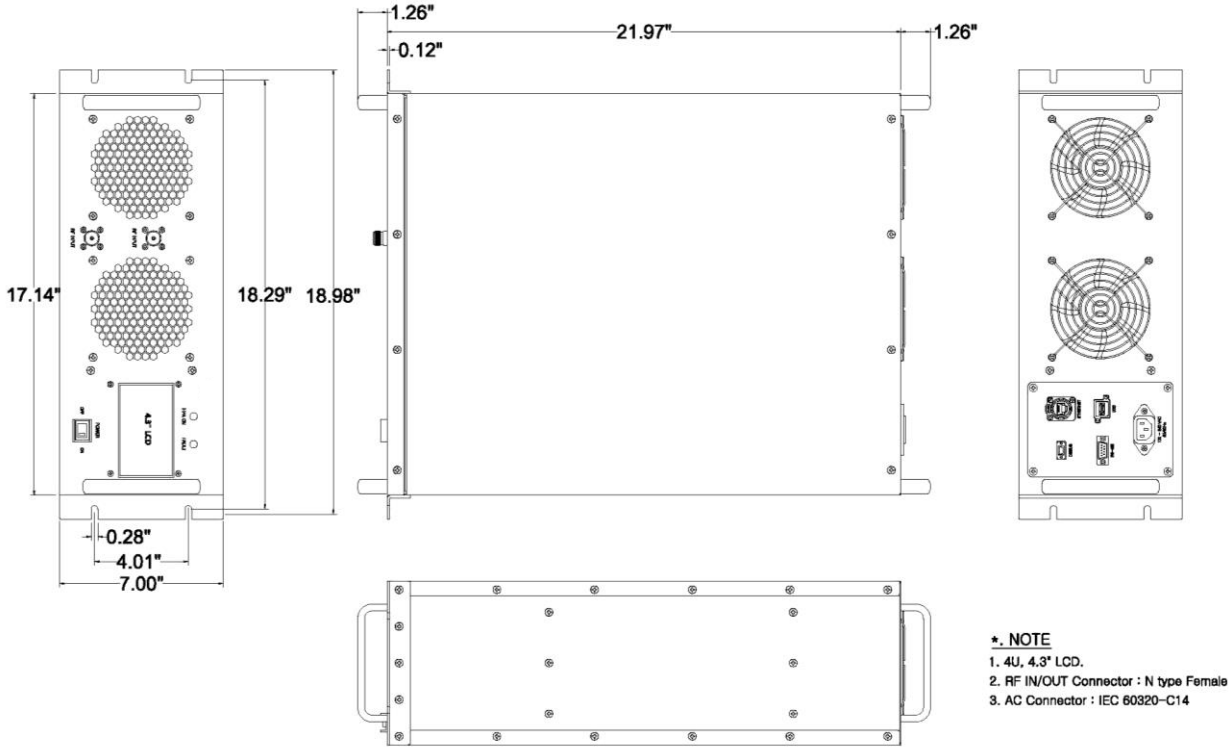
Parameter	Specification	Notes
SSPA Dimensions W x H x D Combiner Dimensions	483 x 178 x 560 mm 430 x 133 x 560 mm	4U - without handles 3U
SSPA Weight Combiner Weight	27 kg. 10 Kg.	
RF Connectors In / Out	Type-N Female	Rear panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485 Optional GPIB Interface	Remote Bluetooth application

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OUTLINE DRAWING

SHOWN WITH OPTIONAL LCD CONTROLLER



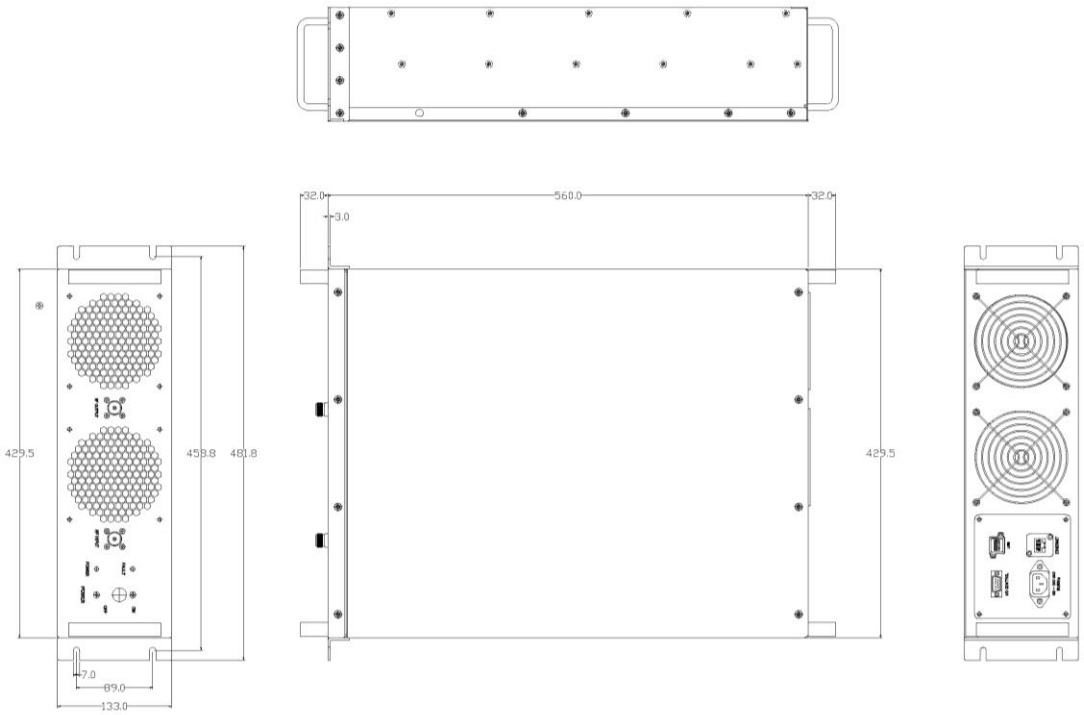
★. NOTE
1. 4U, 4.3" LCD.
2. RF IN/OUT Connector : N type Female
3. AC Connector : IEC 60320-C14

COMBINER UNIT - 3U

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Communications Corp.

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