

MILITARY AMPLIFIER

HF 1000W



1

112

HF - 1.6 MHz to 30 MHz

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VERSATILE MILITARY COMMUNICATIONS

The **AFFACAL 1K** is a High Power Amplifier providing communication for strategic long distance missions.



MAIN FEATURES

RF POWER AMPLIFIER 1000W

- 1.6-30MHz
- 1000W PEP
- LINEAR HF
- Extremely Compact and Reliable
- Radio user interface RS232 control
- Automatic output filter select
- Liquid Cooled
- Silent operation
- Forward power indication - Reflected power indication
- 3 year warranty - MIL-STD-810 G

FEATURES FOR ANY MISSION

COMPACT DESIGN

The Afracal 1k is the most compact 1 kW HF amplifier on the market, occupying only 3U in a 19" rack configuration.

SET-UP

Set-up is automatically controlled by the connected radio.

DATA

High data rates can be maintained due to the exceptional linearity.

POWER SUPPLY

The **Afracal 1k** amplifier can operate on 110 - 220VAC or can be provided in a 48V DC version with external power supply. The connected radio is supplied with a stable 12VDC simplifying power supply configurations and reducing cabling.

COOLING

Continuous operation even in the most demanding environments is ensured by liquid cooling. The overall size is reduced due to the superior cooling resulting in a market leading size of only 3U. This is ideal for compact base and naval systems.

ATU

The Afracal 1k - RF Amplifier facilitates a connection to external high power antenna tuners converting radio RS232 to robust RS485 control signals for extended installation distances between the amplifier and the tuner.

INSTALLATION

The amplifier is designed to be mounted in a 19" Rack but is also available as a table top version. Purpose built base station and vehicular mount racks are available.

Contact our sales team for options or custom solutions.

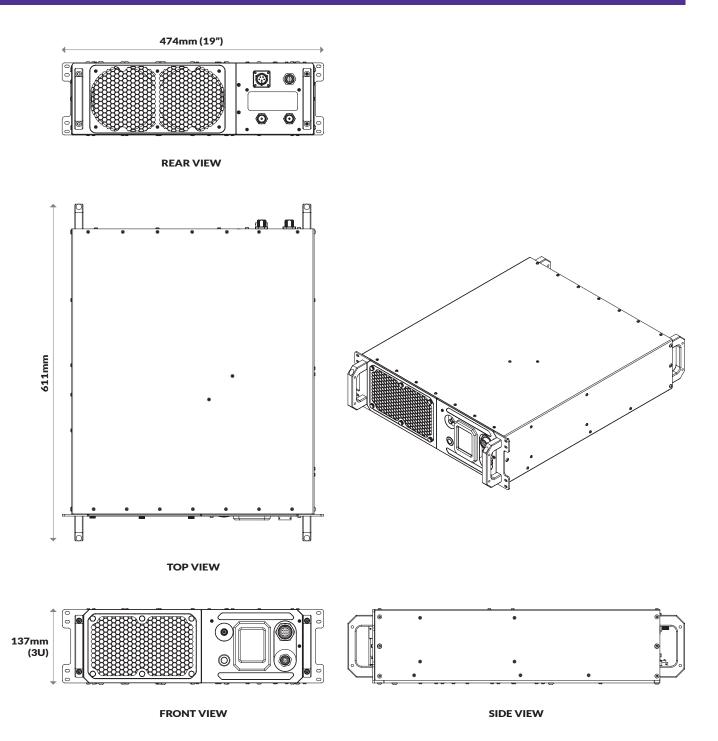
ENVIRONMENTAL

Shock, Vibration & Immersion EMI/RFI **Operating Temperature** Storage Temperature

MIL-STD-810G MIL-STD-461E -30 to +65°C -40 to +85°C







SPECIFICATIONS

RF Output Power Operation Cycle Gain Amp Harmonic Suppression >55dB (typical) Max Load Mismatch Protection Power Source

1000W PEP Continuous 13dB±1dB VSWR 1:5 Temperature, VSWR. 110 - 220V AC

Power Connector **RF** Input connector RF Input/Output RF Output connectors Intercom Interface Aux Connector **Tuner Connector**

62IN-12E-14-5P **BNC** - Female 50 Ohm N-Type Female, 2x Via radio handset connector 62IN-5024-14-19S 62IN-5005-10-7S

Tuner Interface Data Connector Dimensions

Weight **Power Consumption**

RS 232 / RS 485 62IN-5005-10-8S 474x137mm x611 (w x h x d)25 kg (typical) 220VAC 20A 110VAC 41A

Please verify specifications with our sales department.







Tel: +264-61-374700 Email: sales@sat.com.na 2 Jakaranda Street Suiderhof Windhoek, Namibia

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