

MILITARY AMPLIFIER







VU - 30MHz to 512 MHz H - 1.6 MHz to 30 MHz









MAIN FEATURES

LINEAR POWER AMPLIFIERS

- AFRACAL 1 H 1.6 30 MHz (125W)
- AFRACAL 1 VU 30 -512 MHz (75W)
- Rugged, Compact and Reliable - Radio user interface RS232 / RS485 control
- Automatic output filter select
- Forward power indication - Reflected Power indication

11 VU

8000 5 K

rency Range : 38 - 512 MHz ower Supply : 12 - 36 VDC

) """""

- 1 m water immersion
- 3 year warranty
- MIL-STD-810 G

FEATURES

The AFRACAL 1 Power Amplifiers provide uncompromised communication for tactical missions.

Low-pass-filter switching is controlled by both the Radio and Amplifier logic to ensure seamless performance.

COMPACT DESIGN

Designed to fit into tight spaces within military vehicles, the Afracal 1 amplifier range is one of the most compact available.

MIL-STD-810G

Powder-coated T6-Aluminium casing ensures compliance to MIL-STD- 810G specifications.

SET-UP

Set-up is automatically performed by the connected radio.

DATA

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

POWER SUPPLY

The **AFRACAL 1** amplifiers can operate from 12 - 36VDC. The connected radio is supplied with a stable 12VDC simplifying power supply configurations and reducing cabling.

ATU

The AFRACAL 1 - H 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

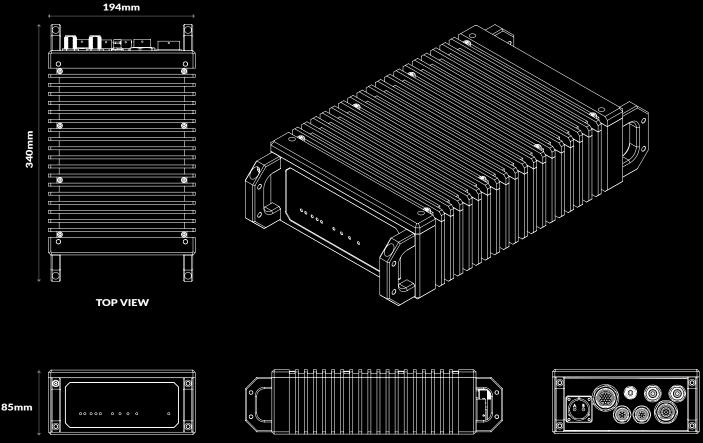
quick extraction, cooling and vibration damping.

Contact our sale 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



FRONT VIEW







SPECIFICATIONS

RF Output Power

Operation Cycle Gain Amp Harmonic Suppression Max Load Mismatch Power Source **Power Connector RF** Input connector **RF Input/Output** RF Output connectors

125W (1.6-30MHz) PEP 75W (30 - 512) CW Continuous with optional cooling fan. 13dB ±1dB >55dB (typical) VSWR 1:5 12Vdc nom. (12-36 VDC) 62IN-12E-18-02P **BNC** - Female N-Type Female

Protection Intercom Interface

External Audio Aux Connector Data Connectors Tuner Interface **Cooling Fan Connector Tuner Connector** Dimensions Weight **Power Consumption**

Temperature, VSWR. Via radio handset connector 10W into 4Ω Optional Speaker (Aux Connector) 62IN-5024-12-14S 62IN-5005-10-8S RS232 / RS 485 62IN-5005-10-6S 62IN-5005-10-7S 194x85mm x340 (w x h x d) 8 kg (typical) 18A at 24V (typical)

Product specifications are correct at time of print. Please verify specifications with our sales department.





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