

LUNARIS 500

160M – 6M Linear Power Amplifier



LUNARIS 500

MAIN FEATURES USAGE

The LUNARIS 500 is a LDMOS based power amplifier that covers all amateur bands from 1.8 through 56 MHz and provides approx.500 W rated output power (PEP).

EASY TO OPERATE

The amplifier power information is shown on a high-resolution OLED TEXT display. Therefore, you need not to install a separate POWER Meter. BUILT IN SWR/POWER and VOLTAGE, CURRENT and Temperature display

LUNARIS 500 can be controlled either by the six front panel switches or remotely(optional separate cost)

INTELLIGENCE

Takes care of itself via continuously working

COMPACT AND LIGHT WEIGHT CONSTRUCTION

Compact and lightweight construction and the built-in FLAT PACK Mean well switching-mode power supply (SMPS). SMPS operates with extended mains voltage range of 180-240 VAC, with no internal switch over. The consumed current is purely sinusoidal, Power Factor Corrected (PFC) and inrush limited. This makes the operation of unstable mains and generators easy

SPECIFICATIONS FREQUENCY COVERAGE

Amateur bands from 1.8Mhz through 54 MHz

RATED POWER OUTPUT

Approx.500 W ± 0.5 dB, PEP

INTERMODULATION DISTORTION (IMD3)

Better than 30 dB below the rated PEP with Two tone test

HARMONIC AND PARASITIC EMISSIONS OUTPUT SUPPRESSION

7-pole Chebyshev Filter, providing steep cut-off skirts and additional harmonic suppression

3.5Mhz (-37dB)
7Mhz (-28dB)
14Mhz (-33dB)
21Mhz (-27dB)
25Mhz (-29dB)
54Mhz (-31.6dB)

BROADBAND INPUT CIRCUIT

Broadband input circuit, providing transceiver load with SWR below 1.5 without retuning throughout the whole frequency range from 1.8 to 54 MHz

TRANSCEIVER-INDEPENDENT

Compatible with all transceiver models - does not need any special signals: "ground on transmit" and less than 5W of RF drive power is sufficient.

LDMOS TRANSISTOR TECHNOLOGY

The LUNARIS 500 amplifier uses a rugged LDMOS transistor..

ELECTROMAGNETIC COMPATIBILITY

Perfect electromagnetic compatibility (EMC) with both highly sensitive devices and the powerful devices in the radio station (receivers, computers, other amplifiers) exceeds the standard EMC

INPUT IMPEDANCES

Nominal value: 50 Ohm unbalanced, UHF (SO-239A) type connectors

SWR: Below 1.5 (1.2 typically), 1.8 -54 MHz continuous range

ANTENNA IMPEDANCE

Nominal value: 50 Ohm unbalanced Antenna with an SWR below 1.5 can be connected to this output for any band. While low SWR is good for any band, it is extremely important on 6m

Antenna connectors: PTFE UHF (SO-239A) type

RF POWER GAIN

19 dB ± 1.5 dB
(typically 5 W drive for rated output)

MAINS POWER SUPPLY VOLTAGE

100-240 VAC $\pm 10\%$, 50--60 Hz, Single phase

SAFETY AND ELECTROMAGNETIC COMPATIBILITY

Designed to Comply with CE safety and electromagnetic Compatibility requirements

PROTECTION - Built in INPUT PROTECTION and SWR ALARM protection for OUTPUT high SWR

SIZE & WEIGHT

Operating (excluding connected cables)

WxDxH: 291x270x157 mm

11 kg approx.

Shipping: WxDxH: Approx. 500x400x280 mm,
13kg approx.

OPERATING ENVIRONMENTS

Temperature range: -10...+40 °C (14 °F to 104 °F)

OPTIONS

48VOLT POWER CONNECTOR In case the user wants you wish to use your own power supply

REMOTE WIRED Band switching unit can be provided IN CASE you wish to place the AMPLIFIER A BIT AWAY IN YOUR SHACK



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