

VL-2000

HF/50 MHz 1.5 kW Linear Amplifier

The Ultimate Linear Amplifier For the World's Top DX'ers

Ultra high speed Automatic Antenna Tuner Built in
Two inputs and Four antenna jacks, with an additional Antenna Direct Jack

VL-2000

HF/50 MHz 1.5 kW (50 MHz: 1 kW) Linear Amplifier

VP-2000

48 V 63A Switching Power Supply



The radio... YAESU
Choice of the World's top DX'ers

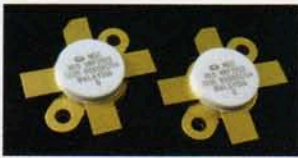


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HF/50 MHz 1.5 kW Linear Amplifier

High Power Output with High Reliability

8 rugged VRF2933 MOS FET transistors, in a Parallel Push-Pull circuit, will produce high power output on 160 through 6 meters. Two large fans, with continuously variable speed control, cool the LPF and RF Power combiner, and assure years of silent, reliable operation.



VRF2933
MOS FET

Two Large Analog Meters

The left meter indicates TX Power or SWR, and the right meter show the ID or VDD.



Monitor Circuitry Assures Reliable and Quick Diagnosis of System Anomalies

The high-power devices are monitored to warn of input voltage fluctuations, extreme heat-sink temperature, high SWR and excessive RF Drive Power.

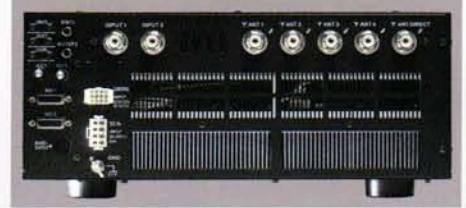
Built-in High speed Automatic Antenna Tuner

Perfect the SWR match of your antenna to 1.5: 1 or better in less than 3 seconds.

Two Input and Four Output Jacks Integrate exciter and antenna selections

For example, the Two input jacks allow, connection of an HF transceiver to INPUT 1 and a 6-meter transceiver to INPUT 2, while the four output jacks may be connected to your station's

various antenna systems. Automatic antenna selection is provided for the exciter connected to the INPUT 1 jack, eliminating the need for multiple antenna-selection keystrokes. When the "DIRECT" switch on the rear panel is turned on, the signal at "INPUT 2" is output from the "ANT DIRECT" connector, without any antenna switching after the amplification. In addition, the VL-2000 is SO2R capable.



Automatic Band Change for Quick QSY

With most modern Yaesu transceivers, band data can be transferred between the transceiver and the VL-2000 amplifier, permitting automatic amplifier band change when you change bands on the transceiver. For use with other exciters, the VL-2000 also provides Automatic Band Change via a frequency sensing circuit, which instantly changes bands when RF drive is first applied.

VL-2000 Specifications

General

Frequency Coverage: 1.8 MHz ~ 50 MHz Amateur Bands
 Operating Mode: SSB, CW, AM, FM, RTTY
 Input: INPUT 1/INPUT 2 (Two Systems)
 Input Impedance: 50 ohm, unbalanced, Type-M connector
 Excitation Power: 100 W or 200 W (@ATT ON)
 Output: ANT 1 ~ ANT 4 (Four Systems) plus ANT DIRECT (INPUT 2 to ANT DIRECT directly)
 Output Impedance: 50 ohm, unbalanced, Type-M connector
 Power Output: 1.5 kW (1.8 MHz ~ 28 MHz Amateur Bands)
 1 kW (50 MHz Amateur Bands)
 500 Watts (1.8 MHz ~ 50 MHz Amateur Bands)
 Spurious Radiation: Better than -60 dB @ 1.8 - 28 MHz Amateur Bands
 Better than -73 dB @ 50 MHz Amateur Band
 Operating Band Change: Manual/Automatic
 (Automatic: requires the CONTROL Cable or the BAND DATA Cable)
 Final Transistor: VRF2933 x 8
 Final Amplifier Circuit Type: Class-AB, Push-pull Circuit, Power Combine
 Cooling System: Forced air-cooling (Variable wind velocity)
 Operating Temperature Range: +14 °F ~ +104 °F (-10 °C ~ +40 °C) @ 1.5 kW/1 kW Operation
 +14 °F ~ +122 °F (-10 °C ~ +50 °C) @ 500 W Operation
 Case Size (WxHxD): 19" x 7" x 20" (482 x 177 x 508 mm)
 Weight (Approx.): 54 lbs (24.5 kg)

Automatic Antenna Tuner Section

Impedance Matching Range: 25 to 100 ohm, unbalanced @ 1.8 MHz Amateur Band
 16.6 to 150 ohm, unbalanced @ 3.5 ~ 50 MHz Amateur Bands
 Matching Time: Less than 3 seconds
 Matched SWR: 1.5 : 1 or better

VP-2000 Specifications

Output Voltage: DC +48 V, DC +12 V, DC -12 V
 Output Current (Maximum): DC +48 V: 63 A
 DC +12 V: 5.5 A
 DC -12 V: 1 A
 Input Voltage: AC 100-240 V, 50/60 Hz
 Current Consumption: 16 A (@AC 200-240V, VL-2000: 1.5 kW output)
 13 A (@AC 200-240V, VL-2000: 1 kW output)
 17.5 A (@AC 100-120 V, VL-2000: 500 W output)
 Case Size (W x H x D): 19" x 7" x 20" (482 x 177 x 508 mm)
 Weight (Approx.): 41.9 lbs (19 kg)

Specifications are subject to change, in the interest of technical improvement, without notice or obligations.

YAESU
Amateur Radio Division of Vertex Standard

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