

# HF 1000C, Solid State, 1KW Shortwave Broadcast Transmitter



These two chassis occupy 10-1/2" of 19" rack space and contain two levels of RF amplifiers that can produce 1KW Carrier power. Each level utilizes (8) BLF278 linear power Mosfets which are driven by a built-in low level driver. Each level is mounted in a 5-1/4" portable rack. Two of these racks can be mounted on top of each other and contain carrying handles.

These two chassis contain the control system and the low level, synthesized exciter and the audio processing equipment. They occupy 10-1/2" of rack space in a portable case similar to the RF chassis units.

This third carrying case has space for mounting the multifunction receiver and the 7" high FM receiver. We can increase the size of this case to serve as a storage facility for cables, instruction books, critical tools, laptop and mixer.

The Basic RF System contains 3 portable 10-1/2" relay rack portable containers. A photograph of a case is attached.



*"The Transmitter People"*



## ENERGY-ONIX

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## **Pulsar HF 1000, 1KW Solid State** **TECHNICAL and MECHANICAL SPECIFICATIONS**

- Configuration: 16 independent power modules with integral cooling fans
- Power Output: 1,000 watts (rated) 1,200 watts (capable)
- Power Control: Automatic via five (local or remote) selectable levels. 1 through 4 are pre-sets, #5 is front panel adjustable.
- Frequency Range: 2.0Mhz to 30 MHz (optional 18MHz,
- RFOutput Impedance: 50 Ohms, Type N
- Modulator Type: Balanced Modulator
- Audio Freq. Resp:  $\pm 0.5\text{dB}$ , 20-20,000 Hz @ 95% modulation
- Audio Dist. (THD):  $<0.5\%$  @ 95% Modulation, 30Hz to 20KHz
- Mod. Capability: 133% positive peak
- Carrier Shift: Less than 1%
- RF Harmonic: -80dB or more below rated output. Meets FCC and CCIR specs
- Spurious Outputs: -80dB or more below rated output. Meets FCC and CCIR specs.
- Noise and Hum: -65 dB or better below 100% Mod
- Protective System: VSWR, DC Over Current, PA over voltage
- Freq. Stability:  $\pm 5\text{Hz}$
- Audio Input: 600 ohms active balanced. -10 dBm to +10dBm
- Power Input: 190-250v, single phase
- Power Variation:  $\pm 10\%$  voltage  $\pm 2\text{Hz}$  frequency
- Power Factor: 0.9 or better (.92 typical)
- Overall AC Efficiency: 80%
- Power Consumption: 1.5KW (0%modulation) W (100%modulation) 2KW
- Metering: Forward/Reflected Power, DC Current, DC and DC Voltage – each PA meter indicates (8) currents, (1) voltage and (1) power output
- Remote Control: Transmitter ON/OFF, power level selection overload reset, telemetry metering samples.
- Ambient Temp:  $-10^{\circ}\text{C}$  to  $50^{\circ}\text{C}$  (higher optional)
- Humidity Range: 0-95%
- Altitude: 0 to 4,000m (0-13,000 ft.)
- Size: Two chassis combined dimensions 21"H x 17" W x 22" D
- Weight: 200 lbs. (Net)
- Standards Modes of Operation - AM, USB, LSB, CW, (FM Optional)

## **Optional Accessories**

XENYX 1204 Premium 12-Input 2/2-Bus Mixer with Xenyx Mic Preamps, British EQs and USB/Audio Interface

Dell Laptop Model Vostro 1720 with Cool Edit (Audition 3)

Antenna Products MA-11 50ft. Sectional Mast

Ten-Tec Wide Band Receiver RX-340

DuroPower DP10000DEC 10000w Industrial Diesel Generator



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