BARRETT COMMUNICATIONS

High Frequency Single Sideband Communications Systems

975 1000 Watt HF Transmitter

The Barrett 1000 Watt HF SSB Transmitter is a compact rack mounted unit developed for base applications in large HF networks. The transmitter comes as a complete package with exciter, power supply, RF power amplifier, interconnect cables and all rack mount hardware. Optionally, it can be supplied with a Barrett remote site controller for remote site operation. The exciter is a Barrett 950 Transceiver with 450 channel capacity and all mode capability. The RF power amplifier consists of two separate push pull broadband amplifier plug-in modules and a combiner. The amplifiers are mounted on each side of the module on large heatsinks. A fan is mounted on the rear of the module and is activated by separate thermostats on each heatsink. The combined output of the two modules passes through the high performance harmonic filters and a VSWR bridge which supplies the ALC voltage to control the exciter drive level. No tuning adjustments are required and a special circuit detects severe mismatches and turns the amplifier off. Two panel meters monitor the collector currents to each module and immediately detect unbalance or faults. A separate meter measures power output. The PS1000B Power Supply uses a "constant-voltage" ferroresonant transformer which provides a high- reliability DC power source that is self-protecting against overloads.

Consists of:
Barrett 950 Local Control HF Transceiver
Barrett 922 Power Supply Unit
TW1000B Linear Amplifier
Cable (control) transceiver to linear
Cable (coaxial) transceiver to linear
Fan option to suit Barrett 950 (BCA90007)
Fan option to suit Barrett 922 (BCA90007)
Rack mounting kit suit Barrett 950 (BCA90010)
Rack mounting kit suit Barrett 922 (BCA90010)
Rack mounting tray to suit TW1000B
39U 19" rack cabinet for floor mounting or;
18U 19" rack unit for desk mounting
19" Blanking panels and hardware

- All solid state
- Built-in 115/230V AC power supply
- Instantaneous frequency changes
- No tuning adjustments
- Broadband 1.6-30MHz
- Meets CCIR specifications

1000 Watt HF transmitter

975

Technical Specifications:

Frequency Range	2 - 30MHz Broadband, (1.6-2MHz at reduced harmonic specifications)
Power Output	1000 Watt PEP SSB, 1000 Watt Avg. FSK, CW
Duty Cycle	Continuous transmit
Intermodulation Distortion	-30dB typical
Harmonics and Spurious	-60dB
Output Impedance	50 Ohms < 2:1 VSWR
Primary Voltage	115/230V AC ±10% (jumper selectable)
Primary Current	14A (230 V) 26A (115V)
Frequency	50Hz/60Hz (jumper selectable)
Weight	190kg
Size	1875(h) x 610(w) x 700(d) cm

BCB97500/3

BVQI Quality System Certified to ISO .9002 Registration No. 57114

BARRETT COMMUNICATIONS

High Frequency Single Sideband Communications Systems

975 500 Watt HF Transmitter

The Barrett 500 Watt HF SSB Transmitter is a compact rack mounted unit developed for base applications in large HF networks. The transmitter comes in either an 18U rack mount cabinet for desk mounting or a 39U rack cabinet for floor mounting. The transmitter comes as a complete package with exciter, power supply, RF power amplifier, interconnect cables and all rack mount hardware. Optionally, it can be supplied with a Barrett remote site controller for remote site operation. The exciter is a Barrett 950 Transceiver with 450 channel capacity and all mode capability. The 500W RF power amplifier is of solid state broadband design and has a built-in AC power supply.

975

Consists of:
Barrett 950 Local Control HF Transceiver
Barrett 922 Power Supply Unit
TW500B Linear Amplifier
Cable (control) transceiver to linear
Cable (coaxial) transceiver to linear
Fan option to suit Barrett 950 (BCA90007)
Fan option to suit Barrett 922 (BCA90007)
Rack mounting kit suit Barrett 950 (BCA90010)
Rack mounting kit suit Barrett 922 (BCA90010)
Rack mounting tray to suit TW500B
39U 19" rack cabinet for floor mounting or;
18U 19" rack unit for desk mounting
19" Blanking panels and hardware

- All solid state
- Built-in 115/230V AC power supply
- Instantaneous frequency changes
- No tuning adjustments
- Broadband 1.6-30MHz
- Meets CCIR specifications

500 Watt HF transmitter

Technical Specifications:

Frequency Range	2-30MHz (1.6-2MHz with reduced harmonic specifications)
Power output	500W PEP Minimum, 500-600W PEP Typical
Duty Cycle	Continuous transmit
Intermodulation distortion	- 30dB typical
Harmonics and spurious	- 43dB 50
Output impedance	50 Ohms <2:1 VSWR
Primary Voltage	115/230V AC ±10% (jumper selectable)
Primary current	14A (230V) 26A (115V)
Frequency	50Hz/60Hz (jumper selectable)
Weight	120kg
Size	950(h) x 610(w) x 700(d) cm

BCB97500/3

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Dealer Stamp