

2075 High power 1kW HF transmitter



- All solid state
- Broadband 1.6 MHz to 30 MHz
- Instantaneous frequency changes
- No tuning adjustments
- 90 to 250 VAC power supply, no switching required
- Meets CCIR specifications

The Barrett 1000 W 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. The exciter is a Barrett 2050 transceiver with a 500 channel capacity and all mode capability.

The RF power amplifier is a rugged solid state unit with a comprehensive LCD display that displays the amplifier operating parameters. No tuning adjustments are required and the amplifier's ALC system protects the unit from severe mismatches. The separate switch mode power supply operates over a range of voltages from 90 to 250 VAC and is fully protected against overloads.



HF Radio Communications

General specifications

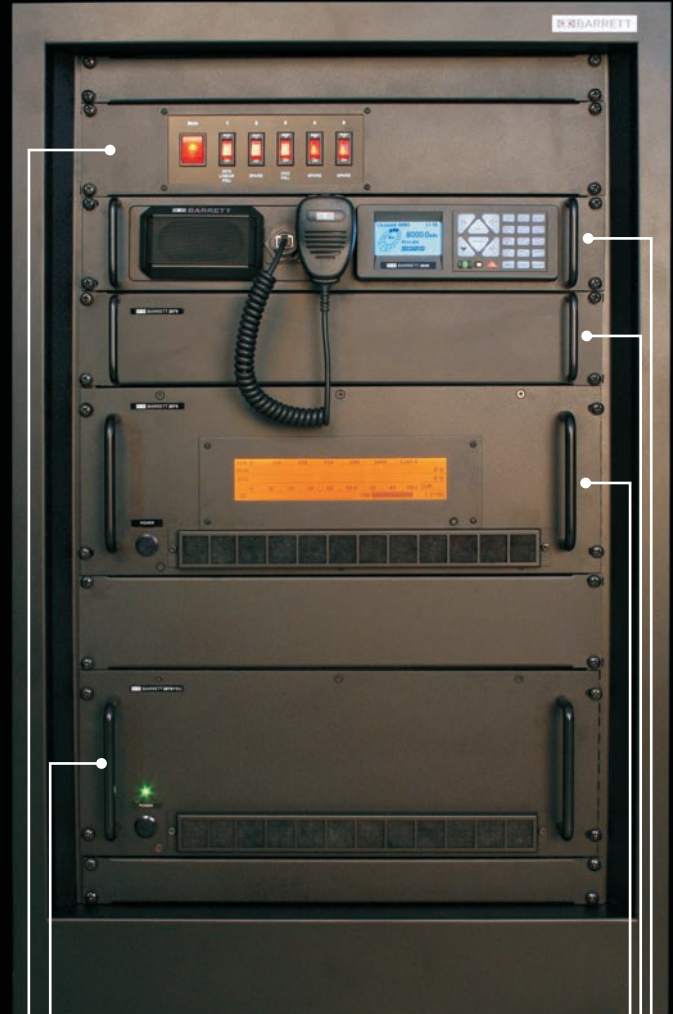
Frequency coverage	1.6 MHz to 30 MHz
Channel capacity	500
Modes	USB/LSB/AFSK
Power output	1000 W PEP
Duty cycle	100% at 1000 W PEP Voice 100% at 1000 W ARQ 100% at 1000 W FEC
Exciter	Barrett 2050 HF transceiver
Line input (to exciter)	600 ohm balanced

2075 Linear amplifier

Excitation power	50 to 80 Watts
ALC voltage (output)	0 to 10 V
Spurious radiation	Less than -50 dB (typical)
Third-order IMD	Less than -31 dB @ 1000 W PEP (typical)
Input impedance	50 ohm, unbalanced
Output impedance	50 ohm, unbalanced
Humidity	95% relative non-condensing
Dimensions	Width - 483 mm (standard 19" rack mount) Height - 175 mm (4RU) Depth - 600 mm (including cable bends)
Weight	23 kg

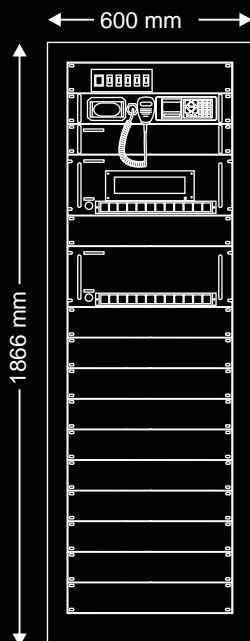
2075 Power supply

Output	+48 V DC at 50 A +12 V DC at 3.0 A -12 V DC at 0.5 A
Input	90 to 250 VAC
Dimensions	Width - 483 mm (standard 19" rack mount) Height - 175 mm (4RU) Depth - 600 mm (including cable bends)
Weight	15 kg



Typical 2075 System example

- Barrett 2075 Linear amplifier
- Barrett 2075 Power supply
- Barrett 2075 Interface
- Barrett 2050 HF transceiver exciter
- Barrett 2022 Power supply
- Barrett 2079 AC Distribution panel
- Cable (control) transceiver to linear
- 19" Blanking panels and hardware
- Rack mounting kit to suit Barrett 2050 and 2022



The Barrett 2075 1000W
P/N BC207500 is installed into
a 39U rack unit weighing
138 kg with a depth of 700 mm