The Barrett 500 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.

The Barrett 2075 can be operated remotely with the Barrett 2076 Turnkey HF remote site control system.

General specifications

- Frequency coverage: 1.6 MHz to 30 MHz
- Channel capacity: 500
- Modes: USB/LSB/AFSK
- Power output: 500 W PEP
- Duty cycle: 100% at 500 W PEP Voice
- 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
- Dimensions: Width - 483 mm (standard 19” rack mount), Height - 175 mm (4RU), Depth - 600 mm (including cable bends)
- Weight: 15 kg

Specifications are typical. Equipment descriptions and specifications are subject to change without notice or obligation.

www.barrettcommunications.com.au

Typical 2075 System example

1. Barrett 2079 AC Distribution panel
2. Barrett 2050 HF transceiver exciter & 2022 Power supply
3. Barrett 2075 Interface
4. Barrett 2075 Linear amplifier
5. Barrett 2075 Power supply

The Barrett 2075 500W P/N BC207505 is installed into a 20U rack unit weighing 92 kg with a depth of 700 mm. It ships as a complete unit including 19” rack mounting kits and blanking plates and all necessary cables and hardware ready for operation.