

2075 High power HF transmitter



- All solid state
- Broadband 2 to 30 MHz
- Instantaneous frequency changes
- No tuning adjustments
- 110 to 250 V AC power supply, no switching required
- Meets CCIR specifications

The Barrett 300-1000 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 110 to 250 V AC and is fully protected against overloads.



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BCB2075/7

HF Radio Communications

General Specifications

Frequency coverage	2 MHz to 30 MHz
Channel capacity	500
Modes	USB/LSB/AFSK
Power output	300 W to 1000 W PEP (adjustable) with AC power input 220 - 240 VAC 300 W to 500 W PEP (adjustable) with AC power input 110 - 120 VAC
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 ohms balanced

2075 linear amplifier

Excitation power	50 ~ 80 Watts
ALC voltage (output)	0 to 10 V (Nominal -4 V @ 1000 W output)
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
Dimensions	Width - 483 mm (Standard 19" rack Mount) Height - 175 mm (4RU) Depth - 600 mm (Including cable bends)
Weight	23 kg

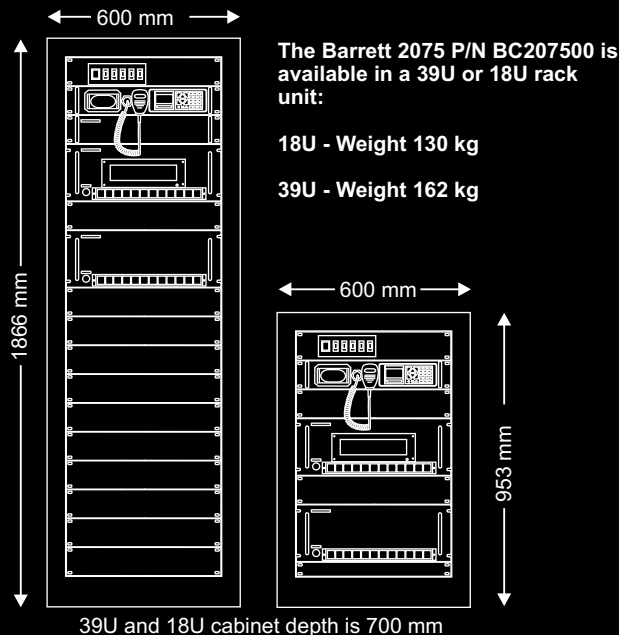
2075 power supply

Output	+48 V DC at 50 A +12 V DC at 3.0 A -12 V DC at 0.5 A
Input	220 to 250 V AC or 110 to 120 V AC
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
- Barrett 2022 Power supply
- Barrett 2079 AC Distribution panel
- Cable (control) transceiver to linear
- 19" Blanking panels and hardware
- Fan option to suit Barrett 2050 HF Transceiver
- Rack mounting kit to suit Barrett 2050 and 2022
- 39U 19" rack cabinet for floor mounting or 18U 19" rack unit for desk mounting



Head Office:
Barrett Communications Pty Ltd
P O Box 1214, Bibra Lake WA 6965 AUSTRALIA
Toll Free Tel: 1800 999 580 Tel: +618 9434 1700 Fax: +618 9418 6757
email: information@barrettcommunications.com.au

Americas Office:
Barrett USA LLC 15941 W. 65th Street
Suite 373, Shawnee, Kansas 66217 USA
Tel: +1 913 671 9068
email: information@barrettusa.com

European Office:
Barrett Europe Limited, Unit 9, Fulcrum 2, Victory Park,
Solent Way, Whiteley,
PO15 7FN UNITED KINGDOM
Tel: +44 1489 880332
Fax: +44 1489 565422
email: information@barretteurope.co.uk