



- **100% duty cycle**
- **International AC supply compatibility**
- **Rack mountable**
- **No break battery backup**
- **Built in 5.0A Battery charger**

The Barrett 4022 Power Supply (P/N BC402201) with built-in charger provides regulated 24V power to one Barrett 4050 HF SDR Transceiver and 12V power to one accessory. The 4022 also has provision for a battery backup system in case of mains power failure. The battery backup incorporates a true automatic no-break change over circuit with a battery charging system, which restricts the output to the maximum 13.8 V of the battery.

The Barrett 4022 is a low noise switch mode power supply which delivers 24 V at 18 amps continuously. It supports a mains input supply that can vary from 85 V AC to 264 V AC. This combined with the ability of the power supply to operate with a Sealed Lead Acid (SLA) backup battery, makes the 4022 ideal for use in areas where mains voltages vary dramatically and occasionally fail altogether. It has a 10 W speaker and an internal fan which provides airflow to keep the power supply operating at a safe temperature level even during the most demanding duty cycles.

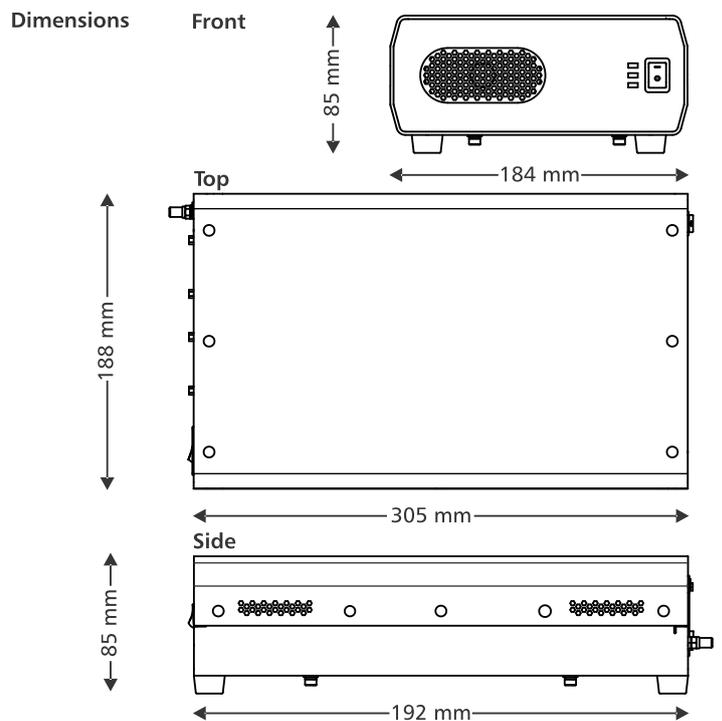
The 4022 is supplied in a standard bench mounting configuration. Other mounting options are available including a 19" Rack Mounting Kit (BCA40007) that can mount one 4022 Power Supply and one 4050 Transceiver and a stacking plate (BCA40016) can also be supplied to secure a 4022 power supply and a 4050 HF transceiver together.

Barrett 4022 Power supply front and rear panels



General Specifications

Equipment	Barrett 4022 mains power supply with no break battery backup charge controller
Output voltage	24 V DC
Output current	18 amps continuous at 24 V DC
Input voltage	85 to 264 V AC @ 50 to 60 Hz auto-ranging
Regulation	Less than 1% change at full load
Ripple and noise	Less than 150 mV RMS at full load
Overload protection	105% to 135% hiccup mode, auto recovery
Operating temperature	-30° C to +70° C
EMC Standards	EN55022 class B, EN61000-3-2,3 EN61000-4-2,2,3,4,5,6,7,8,11 EN50204
Charger output	14.2 V DC (5 amps maximum)
Auxiliary output	13.8 V DC (5 amps maximum)
Controls	Mains on/off switch, LED condition displays
Speaker impedance	8 ohm
Speaker power	10 W
Connectors	DC 1 x DB 15 - 3W3 female for connection to Barrett 4050 Transceiver 1 x DB 15 - 7W2 female for connection to auxiliary accessories 1 x DB 15 - 7W2 male for connection to backup battery
Connectors AC	IEC
Mounting	Standard bench mounting or optional 19" rack mounting kit (P/N BCA40007) or Power supply stacking plate for 4050 HF transceiver (P/N BCA40016)
MTBF	112.79 k hours
MTTR	0.5 hours (Level 2 maintenance, intermediate - Faulty board identification and replacement)



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