



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

The Barrett 4022 Power Supply with built-in charger is designed to provide regulated power to one 4050 Transceiver and 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 available in 2 variants, one which delivers 15 V at 27 amps continuously while the other delivers 24 V at 22 amps continuously. Both support a mains input supply that can vary from 100 V AC to 240 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 (BCA20007) that can mount one or two units and a stacking plate (BCA40016) can also be supplied to secure a 4022 power supply and a 4050 HF transceiver together.

The Barrett 4022 Power Supply / Charger can be supplied in two variants:

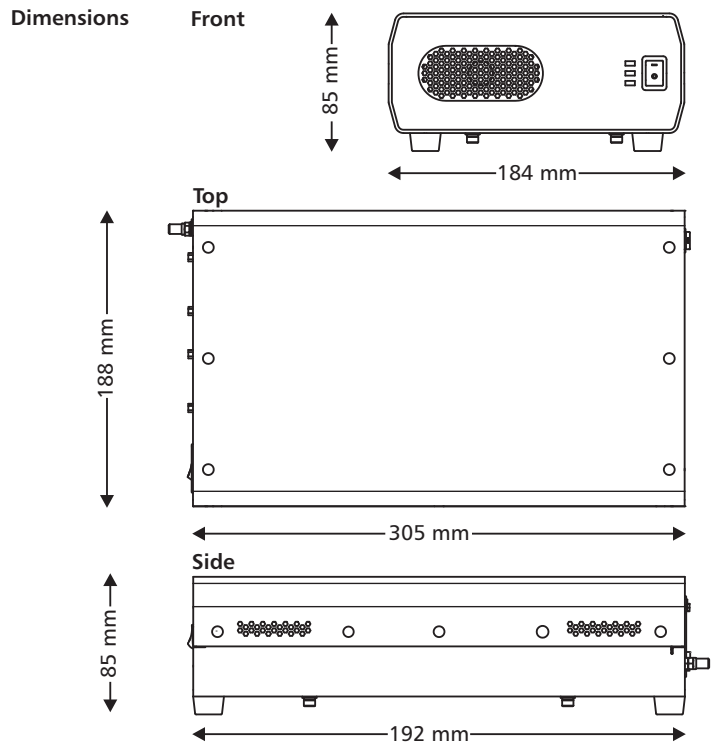
- 15 V Power Supply / Charger (P/N BC402200)
- 24 V Power Supply / Charger (P/N BC402201).

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	15 V DC (P/N BC402200) 24 V DC (P/N BC402201)
Output current	27 amps at 15 V DC 22 amps continuous at 24 V DC
Output power	125 W (max) at 15 V DC 150 W (max) at 24 V DC
Input voltage	100 to 240 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	-10° C to +65° 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 BCA20007) 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. # Approval pending