



- **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:

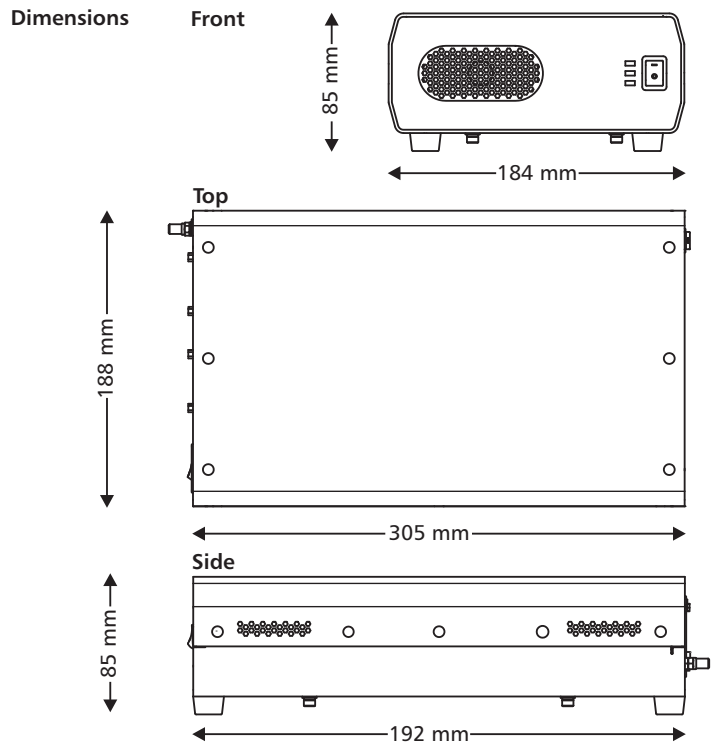
- 15 V Power Supply / Charger (P/N BC402200)
- 24 V Power Supply / Charger (P/N BC402201).

### Barrett 4022 Power supply front and rear panels



## General Specifications

<b>Equipment</b>	Barrett 4022 mains power supply with no break battery backup charge controller
<b>Output voltage</b>	15 V DC (P/N BC402200) 24 V DC (P/N BC402201)
<b>Output current</b>	27 amps at 15 V DC 22 amps continuous at 24 V DC
<b>Output power</b>	125 W (max) at 15 V DC 150 W (max) at 24 V DC
<b>Input voltage</b>	100 to 240 V AC @ 50 to 60 Hz auto-ranging
<b>Regulation</b>	Less than 1% change at full load
<b>Ripple and noise</b>	Less than 150 mV RMS at full load
<b>Overload protection</b>	105% to 135% hiccup mode, auto recovery
<b>Operating temperature</b>	-10° C to +65° C
<b>EMC Standards</b>	EN55022 class B, EN61000-3-2,3 EN61000-4-2,2,3,4,5,6,7,8,11 EN50204
<b>Charger output</b>	14.2 V DC (5 amps maximum)
<b>Auxiliary output</b>	13.8 V DC (5 amps maximum)
<b>Controls Mains</b>	on/off switch, LED condition displays
<b>Speaker impedance</b>	8 ohm
<b>Speaker power</b>	10 W
<b>Connectors DC</b>	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
<b>Connectors AC</b>	IEC
<b>Mounting</b>	Standard bench mounting or optional 19" rack mounting kit (P/N BCA20007) or Power supply stacking plate for 4050 HF transceiver (P/N BCA40016)
<b>MTBF</b>	112.79 k hours
<b>MTTR</b>	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