# **2022 Mains Power Supply**

The BARRETT 2022 is a 13.8V DC regulated, 21 Amp power supply capable of operating on AC input voltages from 88VAC to 264VAC without input voltage switching and is designed to power the Barrett 2000 series of HF transceivers and accessories.

The 2022 has connectors to provide power for one 2000 series transceiver plus one 2000 series accessory such as a modem.

The 2022 has a battery standby system comprising a charging circuit with a true automatic no-break changeover, in case of mains power supply failure. This feature eliminates the problems of data modems re-setting during mains failures and requiring re-initialisation. When mains is present the power supply charges the battery at a maximum rate of 3 amps. When the battery is fully charged the rate is reduced to a trickle charge to prevent over charging.

The 2022 power supply incorporates loudspeakers for the 2000 series transceiver when used in a base station configuration. The loudspeaker is automatically connected to the transceiver via the power connector. The power supply is provided with an internal fan allowing operation at a 100% duty cycle for data applications.

The 2022 power supply is supplied with four IEC cord sets that will suit most mains power outlets used throughout the world.

## **Specifications**

**Equipment** BARRETT 2022 mains power supply with

no break battery backup charge controller

and base station loudspeaker.

Output voltage 13.8V DC

Output current 21 Amps continuous

Input voltage 88 -264 VAC @ 50/60 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%-135% hiccup mode,

auto recovery

Operating temperature -10°c to +50°c

EMC standards EN55022 class B, EN 61000-3-2,3

EN61000-4-2,2,3,4,5,6,7,8,11 EN50204

Charger output 13.6 VDC, 3 Amps maximum

Controls Mains on/off switch, LED condition

displays.

Speaker impedance 8 ohm Speaker power 5 Watts

Connectors DC 2 x DB 15 - 7W2 female for connection

to Barrett 2000 series transceivers

and accessories.

1 x DB 15 - 7W2 male for connection to

auxiliary battery

Connectors AC IEC

Mounting Standard bench mounting or optional

19" rack mounting kit (P/N BCA20007)

## 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

# European Office:

Barrett Europe Limited 19 Lenten Street Alton, Hampshire GU34 1HG UNITED KINGDOM Tel: (44) 1420 542254 Fax: (44) 1420 543373 email: information@barretteurope.co.uk





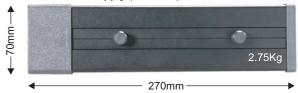
#### 2022 Power Supply (front panel)



### 2022 Power Supply (top view)



# **←** 270mm 2022 Power Supply (side view)



# USA Office:

Barrett USA LLC 5676 Widmer Street, Shawnee Kansas 66216 USA Tel: +1 913 322 6231 Fax +1 913 273 0779 email: information@barrettusa.com

MADE IN AUSTRALIA www.barrettcommunications.com.au







# 2022 Solar Power Supplies

Solar power supplies vary in price based on user requirements. The six solar power supply packages below have very high specifications in terms of allowance for variations in available sun light and have safety margins ranging from 14% to 28%.and array load ratios of 1.5 which is best industry practice for telecommunications solar power supply systems. These systems will operate to specification in Africa, South East Asia, The South Pacific and the Middle East.

Solar packages are quoted without batteries to allow customers to purchase batteries locally as the cost of air-freighting due to battery weights is high. Air-freightable batteries are available if customers prefer a complete package.

Custom solar supplies can be designed and supplied to meet customers exact requirements for different system configurations.

# BC202201 ground mounted light duty solar supply BC202202 roof mounted light duty solar supply

Light duty supplies will power a Barrett 900 or 2000 series transceiver based on a 12 hour operational day (equipment off over night) 2 hours of voice or selcall transmission per 12 hour period and in receive mode for 12 hours.

Includes:-

- -2x75Ahr Solar panels
- Mounting frame
- 20A Solar regulator (includes low voltage load cutout)
- 6m cable from panels to solar regulator
- 1.5m cable from solar regulator to battery.
- Bird spikes

# BC202203 ground mounted heavy duty solar supply BC202204 roof mounted heavy duty solar supply

Heavy duty supplies will power a Barrett 900 or 2000 series transceiver based on 4 hours of voice or selcall transmission per 24 hour period and in receive mode for 24 hours. Includes:-

- -2x110W Solar panels
- Mounting frame
- 45A Solar regulator (includes low voltage load cutout)
- 5m cabling from panels to solar regulator
- 1.5m cable from solar regulator to battery/batteries.
- Bird spikes

# BC202205 ground mounted heavy duty solar supply BC202206 roof mounted heavy duty solar supply

Data system solar power supplies will power a Barrett 900 or 2000 series transceiver, with data modem and notebook computer, based on 6 hours of data, voice or selcall transmission per 24 hour period and in receive mode for 24 hours.

Includes:-

- 11 x 125W Solar panels
- Mounting frame
- -2 x 60A Solar regulator (includes low voltage load cutout)
- -5m cable from panels to solar regulators
- 2m cable from solar regulator to batteries.
- Bird spikes

## **Accessories**

BCA92203 100 AH 12V sealed solar block battery - air-

freightable

BCA92208 Cabling kit for paralleling batteries - per additional battery, consists of two heavy duty cables with lugs

and two hattery luge

#### **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

# European Office:

Barrett Europe Limited 19 Lenten Street Alton, Hampshire GU34 1HG UNITED KINGDOM Tel: (44) 1420 542254 Fax: (44) 1420 543373 email: information@barretteurope.co.uk



USA Office:
Barrett USA LLC 5676 Widmer Street,
Shawnee Kansas 66216 USA
Tel: +1 913 322 6231 Fax +1 913 273 0779
email: information@barrettusa.com

MADE IN AUSTRALIA
www.barrettcommunications.com.au









