

# ↔ DOMETIC ENERGY & LIGHTING BATTERIES



## **COOLPOWER RAPS 44** **Portable battery pack**

Operation Manual



**Please read instructions carefully before using your CoolPower44.  
Keep instructions in a safe place for future reference.**

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### Before first use

Before using for the first time, charge your CoolPower44 using one of the methods described in Charging (page 5).

### Installation and operation

Your CoolPower44 is designed to run standing upright for stability and convenient access to sockets and voltage display. However operation at any angle, from sideways to upside down, is permissible. The internal cells are completely sealed and leak proof.

#### In vehicle

- Fit the charge lead screw terminal to the battery 'CHARGE' socket and plug the other end into the vehicle 12 volt socket.
- If the Dometic heavy duty wiring kit, RAPS12R-U2 has been fitted to the vehicle (recommended), connect the charge lead from the battery to heavy duty kit socket.
- Plug your WAECO compressor fridge or other 12V appliance into one of the front CoolPower sockets.

#### Stand alone

- Connect your WAECO compressor fridge or other 12V appliance into one of the Front CoolPower sockets. To run your fridge for the longest possible time, make sure your CoolPower is fully charged first (see Charging - page 5).

### Fridge running time

Your CoolPower44 is designed to run portable compressor refrigerators up to 65 litres, but will also run larger models for a limited time. Approximate run times are as follows:

Model	Approximate run time* operating as:		
	Fridge Only	Freezer Only	Fridge/Freezer
CFX-28 to CFX-65	36-40 hrs	13-17 hrs	n/a
CFX-65DZ	n/a	n/a	18 hrs
CF80	18 hrs	8 hrs	n/a

\* @ 32°C ambient

Your fridge will run for longer than stated times in cooler ambient conditions.

## Testing

Disconnect the charge lead and press the button on your CoolPower front panel **whilst your fridge is running.**

### Voltage

Your battery voltage will appear on the digital display. The precise remaining capacity will vary depending on conditions such as ambient temperature, but as a general guide will be as follows:

Voltage	Capacity
12.8V or more	80% - 100%
12.3V to 12.7V	40% - 80%
11.3V to 12.2V	20% - 40%

### LED's (on front panel)

A quick visual indication of the condition of your CoolPower can be obtained at a glance. After disconnecting charging leads and pressing the test button:

LED indicator	Voltage	Action Required
'FULL' green ON	12.8V or more	None
Both OFF	11.4V to 12.7V	Charging optional
'LOW' red ON	11.3V or less	Must charge

## Charging

### In-car (12V)

- Plug the charge lead 2-pin screw connector into the 'CHARGE' socket on the left hand side of your CoolPower. Then plug the 12 volt plug on the other end of the charge lead either directly into your vehicle 12 volt socket, or (recommended) into the Dometic RAPS12R-U2 heavy duty wiring kit socket pre-fitted to your vehicle.
- When the CoolPower is accepting charge from your vehicle battery, the green LED adjacent to the 'CHARGE' socket will illuminate.

### 240V mains

- Ensure the battery charger is suitable for 44Ah AGM batteries.
- Most multi-stage battery chargers up to 10A maximum should be suitable

- **An automatic cut out charger must be used, otherwise irreparable damage will occur and your warranty voided.**
- Disconnect your fridge and DC charging lead from the battery.
- Before turning the battery charger on, connect the alligator clamps to the + and - posts at the top of the CoolPower44, ensuring good contact. Now turn the charger on.
- Charging times will vary depending on depth of battery discharge prior to charging and the battery charger used.
- To test your battery after charging, disconnect the charger, wait 30 minutes and then follow the procedure outlined in Testing (page 5).

**Depth of discharge v's battery life**

- The depth of discharge (DOD) is the amount the battery is drained without charging. For example, a remaining capacity of 20% equates to an 80% DOD.
- The service life is the number of times the battery will cycle from fully charged to a given DOD. For a battery in continuous cycle service use, approximate service life figures are as follows:

<b>DOD</b>	<b>Service Life (# Cycles)</b>
80 %	350
50 %	600
30 %	1,250

- Total battery life is a combination of service life and storage conditions when not in use and is influenced by other variables. However as a general guideline you can increase the life of your battery by not discharging any further than necessary before charging.

**Storage**

All batteries benefit from periodic charging when not in use. Following this advice will ensure optimum life from your CoolPower44. Self-discharge characteristics vary with ambient temperature and age, but as a general guideline the battery should be **fully charged every 3-4 months.**

## Troubleshooting

Problem	Possible solution
Battery charge OK, no power to fridge	Check all connections – ensure they are secure and clean
	Check fuse located at rear of battery directly behind the socket powering your fridge. If blown, replace with 15A 3AG fuse
Not fully charging in-car	Check connections – ensure they are secure and clean
	Is the WAECO RAPS12R-U2 heavy duty wiring kit fitted? If not, the vehicle wiring may not be heavy enough to deliver adequate charging current. Fit RAPS12R-U2 to vehicle

For further assistance call Dometic Technical assistance 1800 21 21 21.

## Technical Information (RAPS44)

Output sockets:	1 x 10A 12 volt, 1 x 15A 'hella' style (fused separately)
Fuses:	2 x 15A 3AG
Input sockets:	1 x 2-pin screw type (small) for DC charging 1 x 2-pin screw type (large) for 88Ah connection to second RAPS44 (not supplied – must be purchase separately)
Voltage test:	Push button digital volts display
	'FULL' LED (green) = 12.8V or more
	'LOW' LED (red) = 11.3V or less
DC charging lead:	2.4m long, 2 pin screw connection battery end, 12 volt plug other end
Charge LED (green):	Adjacent to screw socket. On when battery connected to in-car system and accepting 12V charge from vehicle battery
AC charging:	Multi-stage chargers up to 15A Connection via + and – post terminals
Battery cells:	2 x 12V 22Ah(20 hr rate) deep cycle Absorbent Glass Mat (AGM)
Operating temp. range:	-20 to +60°C
Weight:	13.5 kg
Dimensions:	W230 x H245 x D227mm

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