

Lithium-ion battery module

Operating instructions



CH2F 20A charge / discharge socket supplied



Fuel gauge supplied

This is the latest Lithium-ion battery technology from Tracer Power.

Please take a moment to read carefully the following instructions to get the best performance from your Lithium-ion battery pack.



Features

- Lightweight – Approximately 1/4 of the weight of equivalent capacity Sealed Lead Acid batteries.
- Flat discharge curve – Constant power for longer.
- No memory effect.
- Short circuit protected.
- Protected against: Overcharge / Over temperature / Over current / Deep discharge / Short circuit.

Supplied with

- CH2F 20A charge / discharge socket.
- 10A 12V socket.
- Eyelet crimps (fitted).
- Fuel gauge – Displays battery power status.

Precautions in use

- DO NOT attempt to dismantle the battery pack in any way.
- DO NOT short circuit your battery pack – it could overheat and cause fire or explosion.
- DO NOT use as a cranking battery or for starting an engine.
- Your battery pack will need to be charged fully before use.

- If storing your battery pack, store in a charged state. Recharge every 6 months.
- It is recommended to recharge the battery pack within 12 hours if fully discharged.
- Excess heat will degrade the battery pack rapidly. Always store your battery pack in a cool dry place.
- DO NOT leave for long periods in the sun or in a hot vehicle.
- DO NOT immerse your battery pack in water.
- DO NOT dispose of in normal household refuse.

Charger information

- For a full list of compatible chargers please visit tracerpower.com

Charging voltage: 12.6V – 10A and 20A chargers are compatible with all models.

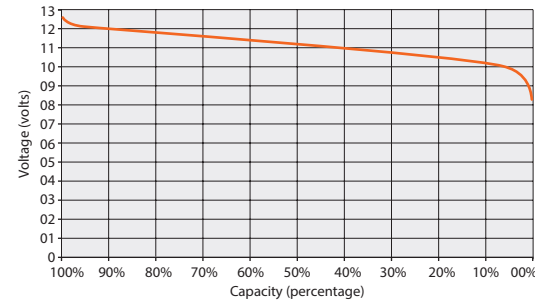
If contemplating using a non-Tracer charger, or solar charger, please contact info@tracerpower.com

Transportation

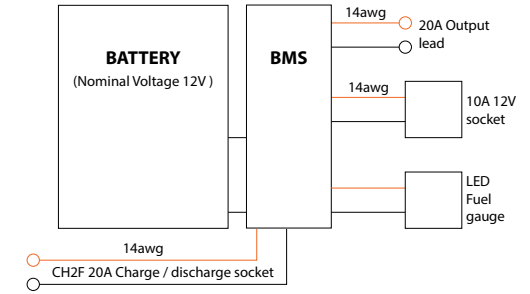
There are many regulations regarding the transportation of lithium batteries. Please consult IATA, your airline, local carrier or contact tracerpower.com for more information.

Discharge Curve (typical)

Flat discharge curve - constant power for longer.



Circuit diagram



| Code | Model | Dimensions (mm) | | | Weight (kg) | Charge time (hrs) | | Max discharge current | |
|--------|-----------|-----------------|-------|--------|-------------|-------------------|---------|-----------------------|-----------------|
| | | Length | Width | Height | | 12V 10A | 12V 20A | Continuous | Peak (for 10ms) |
| BP2805 | 12V 50Ah | 133 | 74 | 202 | 3.3 | 7 | 4 | 20A | 50A |
| BP2810 | 12V 100Ah | 242 | 73 | 215 | 6 | 13 | 7 | 20A | 50A |
| BP2815 | 12V 150Ah | 310 | 73 | 242 | 9 | 20 | 11 | 20A | 50A |

Fuel gauge operation

IMPORTANT: The battery Fuel gauge must be operated at least 2 minutes after the load has been switched off. The battery will recover slightly and only then will the Fuel gauge give an accurate battery state indication. Press and hold the Fuel gauge push button.

- 5th green Battery fully charged.
- 4th green Less than 80% capacity.
- 3rd green Less than 65% capacity.
- 2nd red Less than 30% capacity.
- 1st red Less than 10% capacity.
- No lights Battery empty.

Warranty

Your new battery has a 12 month warranty (from the date of purchase) against premature failure due to defects in materials and/or workmanship, subject to the following conditions:

- The warranty does not cover failure due to use outside of the specification and parameters outlined in the previous sections.
- The warranty does not cover failure due to damage caused by abuse.[§]
- The warranty does not cover failure from excessive wear and tear even within the warranty period.

- A till or computer generated proof of purchase must accompany your claim.
- The warranty is limited to the original owner and is not transferable.
- Should any original defect appear, please log your warranty claim with your retailer or at tracerpower.com

The warranty is void if:

- The serial number is removed from the product.
- The battery or connection system has been modified in any way.
- The battery has been left in a discharged state.

This warranty is limited to the original purchaser and is in addition to your statutory rights.

[§] Charge your battery directly after each use. Leaving your battery in a discharged state will seriously and permanently damage its performance. Please note we cannot uphold warranty claims in these circumstances.

Supplied as a battery module with fuel gauge, eyelet crimps, 12V socket and CH2F charge / discharge socket.