

Thumper EXTREME ELITE

Blue Apple
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Thank you for purchasing a **BLUE APPLE THUMPER EXTREME ELITE** battery pack.

Your satisfaction is important to us, so please take the time to read and use the information enclosed as there are a number of significant differences in the Extreme ELITE range. The standard instructions are also relevant for this battery pack.

General Information

The Thumper Extreme Elite range is built with the latest technology Deep cycle AGM battery.

Designed with increased amp hour capacity (60Ah, 80Ah and 110Ah), this Thumper is ideally suited to the use of heavy draw appliances or continual discharging of the battery to a low capacity (10.5Volts).

Due to the nature of this type of technology, the Thumper Extreme will need to be cycled (discharged and recharged) a minimum of three times in order to achieve its full capacity as a heavy duty cyclic battery.

Operating your Thumper

Your Thumper Extreme Elite unit is completely recharged before purchase. The condition of the Thumper can be checked by pressing the red push button at the front of the Thumper to illuminate the voltage gauge (*Figure1) Simply cross-reference the reading from the gauge against the sticker on top of the Thumper in order to determine the remaining battery capacity available.



Figure 1
LED Volt gauge

The Thumper Extreme Elite is fitted with a bi-direction shunt rated to 50Amps, allowing the gauge to read both the charge rate (Figure 3) and discharge rate (Figure 2) from any of the outlets in the Thumper (excluding the 175Amp Anderson connector) (please refer to photos below).

- The Amp gauge is accurate within 0.5Amp – it is normal for the gauge to read -0.03 when not in use



Figure 2
Amp meter showing discharge from an outlet socket

Figure 2

This picture demonstrates the Amp **discharge** from the gauge (output draw).

This gauge will show a discharge rate up to 50 Amps from any of the outlet sockets (excluding the 175Amp Anderson connector).

Simply press the small black push button located on the bottom right hand corner of the gauge surrounding to switch between the Volt meter and Amp meter setting.

The Volt / Amp gauge is extremely low draw and is suitable to remain on all the time if desired.



Figure 3
Amp meter showing the charge rate from an outlet socket

Figure 3

This picture demonstrates the **input** charge rate measured in Amps.

Simply connect your vehicle charge line, solar or 240 Volt charger to any of the outlets of the Thumper (excluding the 175Amp Anderson connector)

The positive reading indicates you are creating more charge than you are using.

Please note: If you are discharging and recharging the Thumper at the same given time, then the Amp gauge will read the difference between the accumulated usages.

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Figure 4

The Thumper Extreme Elite unit includes an LED Indicator light, which will allow you to obtain an accurate status of your battery's condition with just a mere glance.

Normal operating voltage (12.7 Volt – 12.2 Volt) will show a green light. This indicates the first 50% of the Thumper's available capacity.

The orange LED light indicates voltage below 12.1 Volts. This will show the Thumper's available capacity is sitting between 50 % and 30 %

The orange flashing light indicates that the Thumper unit is between 30% - 10 % of remaining capacity.

Once the LED light turns red, the Thumper is in the last 10% of charge. The Thumper is still within operating voltage, however, there should be serious consideration for recharge at this stage. The Thumper should never be left in this state of charge for long periods of time or damage to the batteries will occur.

The RED flashing light on this indicator gauge indicates the Thumper is completely discharged and recharging is required immediately. **Do not** continue to discharge the Thumper if the LED light is flashing RED or damage will occur and warranty will be void. Discharging the Thumper below 10.5 volts will void warranty.

PLEASE NOTE:

In order to obtain an accurate reading of the Thumper's current state of charge any load must first be removed from the Thumper. Inaccurate readings will be recorded if the unit is charging or operating appliances at the time in which the voltage reading is taken.

Internal Protection

Your Thumper Extreme Elite unit is fitted with internal automatic reset circuit breakers. The outlet sockets on the front of the Thumper unit are protected with an internal automatic reset circuit breaker, while the 50Amp Anderson connectors are protected by an independent automatic reset circuit breaker.

Internal Isolator – vehicle charging

The Extreme Elite is fitted with an internal Isolator wired directly to the dedicated 50 Amp Anderson labelled 'ALTERNATOR INPUT'. The isolator will operate on voltage, separating the Thumper from the vehicle charge line when the input voltage drops to 12.7 Volts (eg. When the ignition has been switched off). The Thumper will begin to charge from the vehicle when the input voltage increases to 13.2Volts (ignition switched on and alternator is charging).

Please note: There will be no power available at the Anderson labelled 'ALTERNATOR INPUT'. This is purely a charging point from the vehicle and will not be available for use with accessories (such as fridges, solar panels etc).

Activation voltage: approx. 13.2 Volts
Disconnection voltage: approx. 12.7 Volts
Internal protection: Yes – circuit breaker protection

Additional note:

The remaining 50 Amp Anderson may also be used for vehicle charging, however this is **not** an isolated outlet and therefore will be directly linked to the power source (eg. Main battery feed if no additional isolator is fitted).

For any additional questions please contact Blue Apple on (08) 8391 3121



Figure 4
LED Indicator light
Please refer to sticker on Thumper
for current status