

Light Weight 11kg

## LITHIUM 120AH iTECH120



### LATEST TECHNOLOGY

Introducing the iTechworld Lithium Battery 120AH - iTECH120, a state of the art lithium battery designed from the ground up to power recreational vehicle (caravans, motorhomes, camper trailers & marine).

### PROTECTIVE FUNCTIONS

Built into the B.M.S are several protective functions including 3 levels of over current protection, over discharge protections, cell temperature, ambient temperature and cell voltage.

### CHARGING

The iTECH120 battery is the ultimate in light weight power technology. This is a direct replacement for your older and heavier batteries, and will require no changes to your charging system. Battery chargers must have a cut off point of 14.7v or less.

### SAFETY IS THE PRIORITY

Our lithium cells are the safest available making them the perfect choice for use in our batteries. The cells used in our batteries have been manufactured to the highest of standards using lithium from Western Australia.

### ADVANCED B.M.S

Designed and developed in Perth the B.M.S is the control centre of the battery. Designed with the outdoor enthusiast in mind, the B.M.S permits fast charging and easy discharge, allowing the user to operate high current appliances such as toasters, microwaves, kettles and hairdryers via an inverter. The B.M.S also helps balance the cells for series or parallel connection.



# INSTRUCTIONS

## iTECH120 120AH

Please follow and understand these instructions before using the iTECH120, failure to do so can cause the battery to fail. It is strictly prohibited to disassemble battery. Inside the battery are electrolytes. These electrolytes can be a skin and eye irritant. Don't touch battery directly if you see any liquid on the battery. If there is electrolyte on your skin, please use soap and water to wash; if there is electrolyte on your eyes, please use lots of water to wash it and go to hospital immediately.

Do not cross the polarity of the battery.

Never plug the battery directly into 240v mains power.

Do not open the casing.

Do not throw, squeeze, puncture, strike, contort, heat, burn, or disassemble battery.

Keep children and animals away from the battery.

Battery should be stored in a dry environment away from water.

Battery operates best if kept above 12.8v.

When charging do not exceed 15v input. A battery charger with cut out of 14.7v and under is best.

Can connect in series, up to 4 batteries, max 48V

Can connect in parallel up to 4 batteries. When connecting in parallel all batteries voltage must be the same.

Do not use this battery with lead acid battery or other brand battery in series or parallel.

Exposure to sunlight can increase discharge rate of battery.

If battery shows any shape change, colour change or any liquid seeping from battery stop using immediately and contact iTechworld.

If the battery terminal screws are corroded, be careful not to bend the terminals when tightening or loosening.

Do no short-circuit the battery by directly connecting the positive and negative terminals together or with metal conductive objects.

Do not transport the battery together with metal objects that are conductive.

When connecting a load to a battery bank in parallel please follow the wiring diagram provided in this document.

# SPECIFICATIONS

## iTECH120 120AH

Nominal Voltage: 12.8v

Charging Voltage: 14.7v or less

Discharge cut off Voltage: 10v

Standard charge current: 18A

Maximum charge current: 50A

Standard discharge current: 100A

Max discharge current: 250A

Output connector: M8 Stud

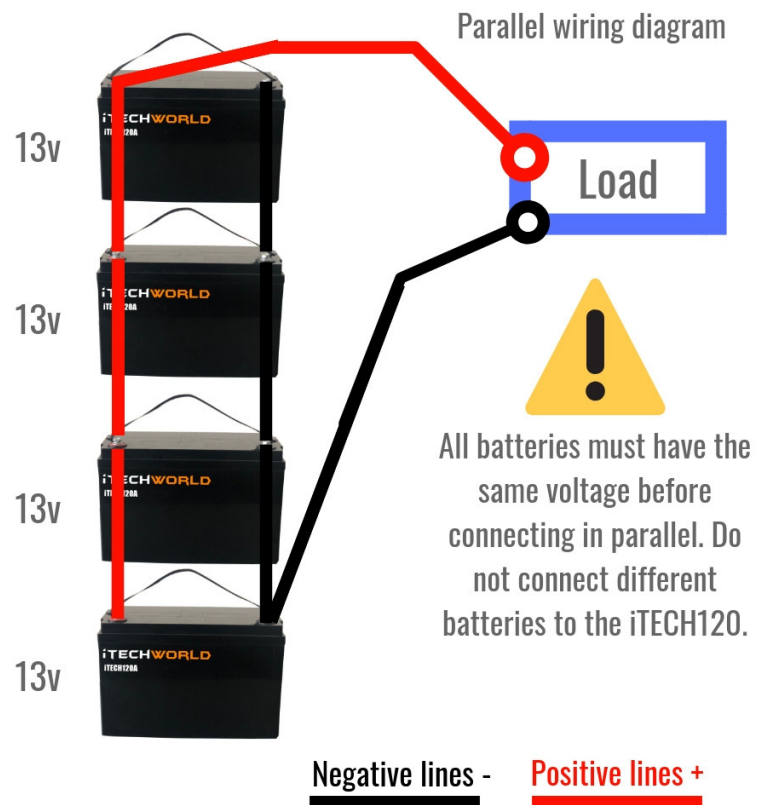
Weight: 11kg

Dimensions: 330\*173\*215mm

Charge temp range: 0°C - 45°C

Discharge temp range: 20°C - 60°C

Storage temp: -10°C - 45°C





# INSTRUCTIONS

## Storing the Battery when not using it

Long-time storage in a hot or wet environment will damage the battery. The battery should be stored in dry and ventilated environment. The ideal storage temperature is below 25°C if stored this way it will extend the battery life. If the storage temperature surpasses 40°C for a long period of time (more than 30 days), battery life may be shortened; if the storage temperature surpasses 55°C, the battery can be damaged. When the battery is being stored for more than 50 days the preferred charge storage capacity should be between 70% and 80% this should be a reading of 13v on the digital display. Putting a charge into the battery every three month will prolong the battery life.

## Transporting the Battery

The Battery should always be carefully handled. Don't throw battery, and avoid squeezing it i.e do not pack heavy objects on top of the battery otherwise your battery casing will be deformed. The battery is robust and should be able to handle light off road bumps. Ensure the battery is in a secure spot where it cannot be punctured.

Do not store battery with flammable, explosive goods or sharp metals. Upon delivery of battery from iTechworld please inspect for openings in the casing or other damage that could have been caused in transit. Contact iTechworld immediately if the battery does not seem right after taking delivery.

## Returns

You must follow the advised instructions from the manufacturer when using iTech120, failure to do so will affect your warranty. Your receipt should be retained at all times. In order to claim warranty, you must return the product to iTechworld with your iTechworld receipt. Prior to returning your product for warranty please telephone our customer service helpline 08 9472 7200.

If your existing battery charger does not cut out automatically at 14.7 or below then please contact iTechworld on 08 9472 7200. We have the correct battery chargers available

# WARRANTY

## 2 Year Warranty

Your product is guaranteed for a period of 24 months from the date of purchase. If a product is defective it will be repaired in accordance with the terms of this warranty. The benefits provided under this warranty are in addition to other rights and remedies which are available to you under law. The warranty covers manufacturer defects in materials, workmanship and finish under advised use(in accordance with manufacturers instructions). Our goods come with guarantees that cannot be excluded under Australian Consumer Law and Consumer Guarantees act 1993 (NZ). You are entitled to a replacement if there is a major failure. You are also entitled for the goods to be repaired if there is a minor fault.

