



# Aerocore Battery



## Owner's Manual

Masport Aerocore Battery

### Important

**Please read these instructions carefully before assembly, to reduce risk of fire, burn hazard or other injury.  
Keep these instructions in a safe place for future use.**

This manual covers the Masport Aerocore Battery



**Do not operate this machine before it has been assembled correctly and you have read and understood these instructions.**

**Keep the instructions in a safe place for future use.**

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	Carefully read owner's manual before handling the machine. Observe instructions and safety rules when operating.
	RCM symbol
	Li-Ion battery. This product has been marked with a symbol relating to 'separate collection' for all battery packs and battery pack. It will then be recycled or dismantled in order to reduce the impact on the environment. Battery packs can be hazardous for the environment and for human health since they contain hazardous substances.
	Do not burn
	Batteries may enter water cycle if disposed improperly, which can be hazardous for ecosystem. Do not dispose of waste batteries as unsorted municipal waste.
	Positive Terminal
	Negative Terminal

## Safety Warnings



**WARNING** Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. Save all warnings and instructions for future reference.

- a) Do not dismantle, open or shred cells or battery pack.
- b) Do not short-circuit a battery pack. Do not store battery packs haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by conductive materials. *When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.*
- c) Do not expose battery pack to heat or fire. Avoid storage in direct sunlight.
- d) Do not subject battery pack to mechanical shock.
- e) In the event of battery leaking, do not allow the liquid to come into contact with the skin or eyes. If contact has been made, wash the affected area with copious amounts of water and seek medical advice.
- f) Seek medical advice immediately if a cell or battery pack has been swallowed.
- g) Keep battery pack clean and dry.
- h) Wipe the battery pack terminals with a clean dry cloth if they become dirty.
- i) Battery pack needs to be charged before use. Always refer to this instruction and use the correct charging procedure.
- j) Do not maintain battery pack on charge when not in use.
- k) After extended periods of storage, it may be necessary to charge and discharge the battery pack several times to obtain maximum performance.
- l) Battery pack gives its best performance when it is operated at normal room temperature ( $20\text{ }^{\circ}\text{C} \pm 5\text{ }^{\circ}\text{C}$ ).
- m) When disposing of battery packs, keep battery packs of different electrochemical systems separate from each other.
- n) Recharge only with the charger specified by Masport. Do not use any charger other than that specifically provided for use with the equipment. *A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.*
- o) Do not use any battery pack which is not designed for use with the equipment.
- p) Keep battery pack out of the reach of children.
- q) Retain the original product literature for future reference.
- r) Remove the battery from the equipment when not in use.
- s) Dispose of properly.
- t) Do not mix cells of different manufacture, capacity, size or type within a device.
- u) Do not remove battery pack from its original packaging until required for use.
- v) Observe the plus (+) and minus (–) marks on the battery and ensure correct use.



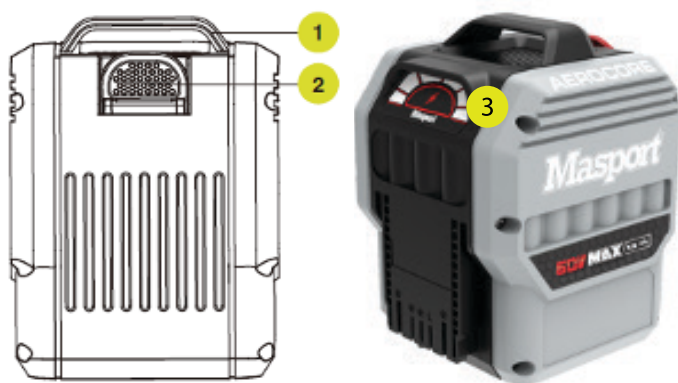
## Product Specifications

Product	Aerocore 2.5Ah Battery ABP6025SH / 553155	Aerocore 5.0Ah Battery ABP6050SH / 553156
Rated Voltage	60V MAX*	60V MAX*
Battery Capacity [553155 / ABP6025H]*	2.5 Ah	5.0 Ah
Battery Type	Lithium-ion	Lithium-ion
Battery Weight	1.55kg	2.34kg

\*Disclaimer: Maximum initial battery voltage (measured off load) is 60.0v. Nominal voltage as per industry rule (3.65v /cell) is 54.0 Volts.

### Product Diagram

1. Carry handle
2. Battery release button
3. Battery capacity indicator



**WARNING:** Remove the battery pack from the package and examine it carefully. Do not discard the carton or any packaging material until all parts have been examined.

**WARNING:** If any part of the battery pack is missing or damaged, do not attach the battery pack to the tool until the part has been repaired or replaced. Failure to heed this warning could result in serious injury

## Operation

**NOTE:** Before using your battery pack, be sure to read the instruction manual carefully.

Before attempting to use this tool, become familiar with all of its operating features and safety requirements. For optimum performance and safety, read the following operating instructions carefully before using.

**WARNING:** Do not allow familiarity with the battery to cause a lack of alertness.

A fraction of a second of carelessness is enough to cause severe injury.

Do not continue to press the On/Off switch after the machine has automatically switched off. The battery could be over-discharged.

**NOTE:**

1. Your battery pack is UNCHARGED. To ensure full capacity of the battery, completely charge the battery in the battery charger before using your power tool for the first time.
2. A battery pack will slowly lose its charge when kept out
- 4

\*Not included in some models

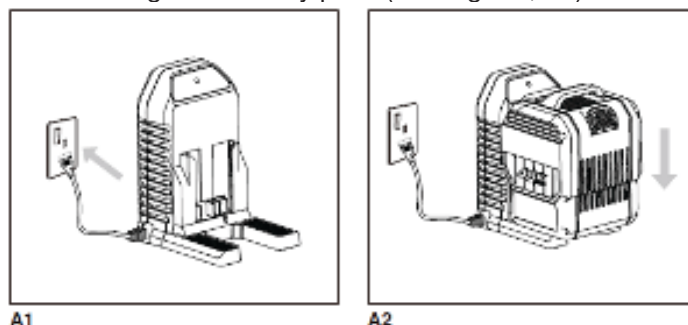
of the charger or left in an unplugged charger for a long time. It may need to be recharged before use.

3. Charge the lithium-ion battery pack only with the correct charger. The Li-ion battery is protected against deep discharging. When the battery is empty, the machine is switched off by means of a protective circuit: the tool no longer operates. In a warm environment or after heavy use, the battery pack may become too hot to permit charging. Allow time for the battery to cool down before recharging. The Li-ion battery can be charged at any time without reducing its service life. Interrupting the charging procedure does not damage the battery.

### COLD WEATHER OPERATION

When the battery pack is very cold, it may “pulse” for the first minute of use in order to warm itself. Put the battery pack on a tool and use the tool in a light application. After about a minute, the battery pack will have warmed itself and will operate normally.

How to charge the battery pack (See Fig. A1, A2)



### CHARGING PROCEDURE

- 1) Plug the charger into an appropriate outlet.
- 2) Slide the battery pack into the charger, and make sure the battery is in the correct charge position firmly. The light will begin flashing green to indicate the charging process has started.
- 3) When charging is completed, the light will turn solid green.
- 4) After the battery is fully charged, unplug the charger and remove the battery pack.

**NOTE:** If the battery pack is locked in the charger, press the battery pack release button and remove it.

**Warning!** The charger and battery pack are specially designed to work together so do not attempt to use any other devices. Never insert or allow metallic objects into your charger or battery pack connections because an electrical failure and hazard will occur.

**WARNING:** When battery charge runs out after continuous use or exposure to direct sunlight or heat, allow time for the tool to cool down before re-charging to achieve the full charge.

## BATTERY CAPACITY INDICATOR









Your tool is equipped with battery capacity indicator. Press the button fully, the battery capacity indicator will light up to show the amount of charge left in the battery.



No light on	< 5%
One light on	5% - 25%
Two lights on	26% - 35%
Three lights on	36% - 50%
Four lights on	51% - 60%
Five lights on	61% - 80%
Six lights on	81% - 100%

## CHARGING INDICATOR

This charger is designed to detect some problems that can arise with battery packs. Indicator lights indicate problems (see table below).

Light	ON/Flash	Status
Red on	 	Defective Battery
Red flash	 	Battery Temperature Protection. The temperature of the battery pack is less than 0°C or more than 40°C.
Green on	 	Fully Charged
Green flash	 	Charging

## Transport

The contained Li-ion batteries are subject to the dangerous goods legislation requirements. The user can transport the batteries by road without additional requirements. Dispatch batteries only when the battery housing is undamaged. Pack up the batteries in such a manner that they cannot move around in the packaging.

## Maintenance

Occasionally clean the venting slots of the battery using a soft, clean and dry brush.

It is good practice to unplug the charger and remove the lithium-ion battery pack when not in use.

A significantly reduced working period after fully charging indicates that the battery is at the end of its working life and must be replaced.

**WARNING:** To avoid serious personal injury, always remove the battery pack from the tool when cleaning or performing any maintenance.

**WARNING:** Do not at any time let brake fluids, gasoline, petroleum-based products, penetrating oils, etc., come in contact with plastic parts. Chemicals can damage, weaken or destroy plastic which may result in serious personal injury.

**WARNING:** To reduce the risk of fire, personal injury, and product damage due to a short circuit, never immerse your tool, battery pack or charger in fluid or allow a fluid to flow inside them. Corrosive or conductive fluids, such as seawater, certain industrial chemicals, and bleach or bleach containing products, etc., can cause a short circuit.

## Storage

Store the battery between -10 and 55°C (14 and 131°F). Do not leave the battery in the car in summer. It is recommended that the battery be stored indoors for the winter months.

For lithium-ion battery pack storage longer than 30 days:

- Store the lithium-ion battery pack where the temperature is below 40°C(104°F) and free of moisture.
- Every six months of storage, fully charge the lithium-ion battery pack.
- Exterior may be cleaned with a cloth or soft, non-metallic brush.

## Troubleshooting

Symptom	Possible Causes	Solution
The battery pack does not work	The battery pack charge has run out	Charge the battery pack
The battery cannot be correctly charged in the charger (Indicator light is red)	Flashing Red: the battery pack is too hot or too cold. Constantly Red: the battery pack is defective.	Allow the battery pack to reach normal temperature and re-charge the battery pack. Take the defective battery pack to the Masport service dealer.







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