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ISO45001:2018



ISO14001:2015



ISO9001:2015



HANGCHA trucks conform to the European Safety Requirements.



# XA SERIES

MINI POTENTIAL ENERGY RECOVERY STACKER

With capacity of 1,200 to 1,500kg

# XA SERIES STACKER



The XA Series 1.2t-1.5t Mini Potential Energy Recovery Stacker is a new generation product developed by Hangcha for warehousing and logistics applications.

It adopts advanced permanent magnet brushless technology with standard Potential energy recovery, and extended runtime.



Advanced  
Performance



Comfortable  
Operation



High  
Reliability

## Appearance

The XA Series Mini Potential Energy Recovery Stacker features professional industrial design, inheriting the family design concept of the XA series. The vehicle has smooth lines with dynamic aesthetics, compact dimensions, and full consideration of ergonomics, conforming to the latest design trends.



## MORE SMART MORE POWER

Standard potential energy recovery system for extended runtime, with proportional lifting and lowering capability.

### High Performance

- Equipped with permanent magnet brushless motor, delivering high performance with low heat generation and low noise.
- Permanent magnet brushless control system with lower energy consumption.
- CAN communication tiller head with standard display screen for convenient and quick fault diagnosis, integrated with key switch, card reader or password lock, offering rich functionality.



# LIFT HEAVY. WORRY FREE.

- Fourpoint support design with reasonable drive wheel load distribution, ensuring good traction for all wheels while maintaining excellent stability and visibility.
- Interlock switch adopts noncontact proximity switch with extremely high reliability.

## Reliability



Mature and stable hydraulic unit with low noise, low vibration, and smooth, reliable lifting and lowering.



The chassis adopts high-strength steel plate frame structure with large residual load capacity and long service life.



Key switch with standard dust cover for dust, water, and oil resistance, greatly improving reliability in harsh working conditions.

Stamped-form forks with higher strength and impact resistance, combined with fork tip guidance to further improve operational efficiency.

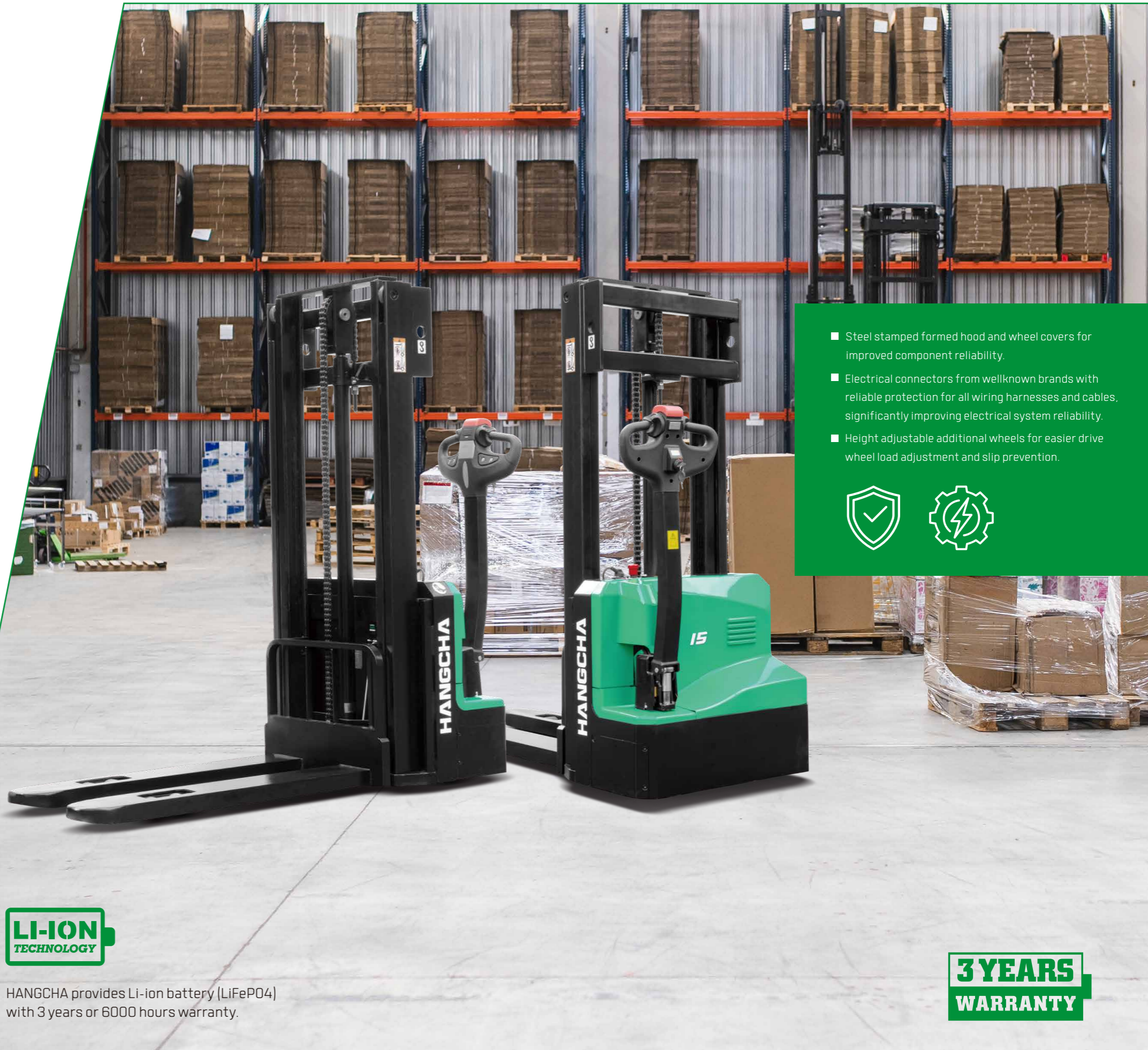


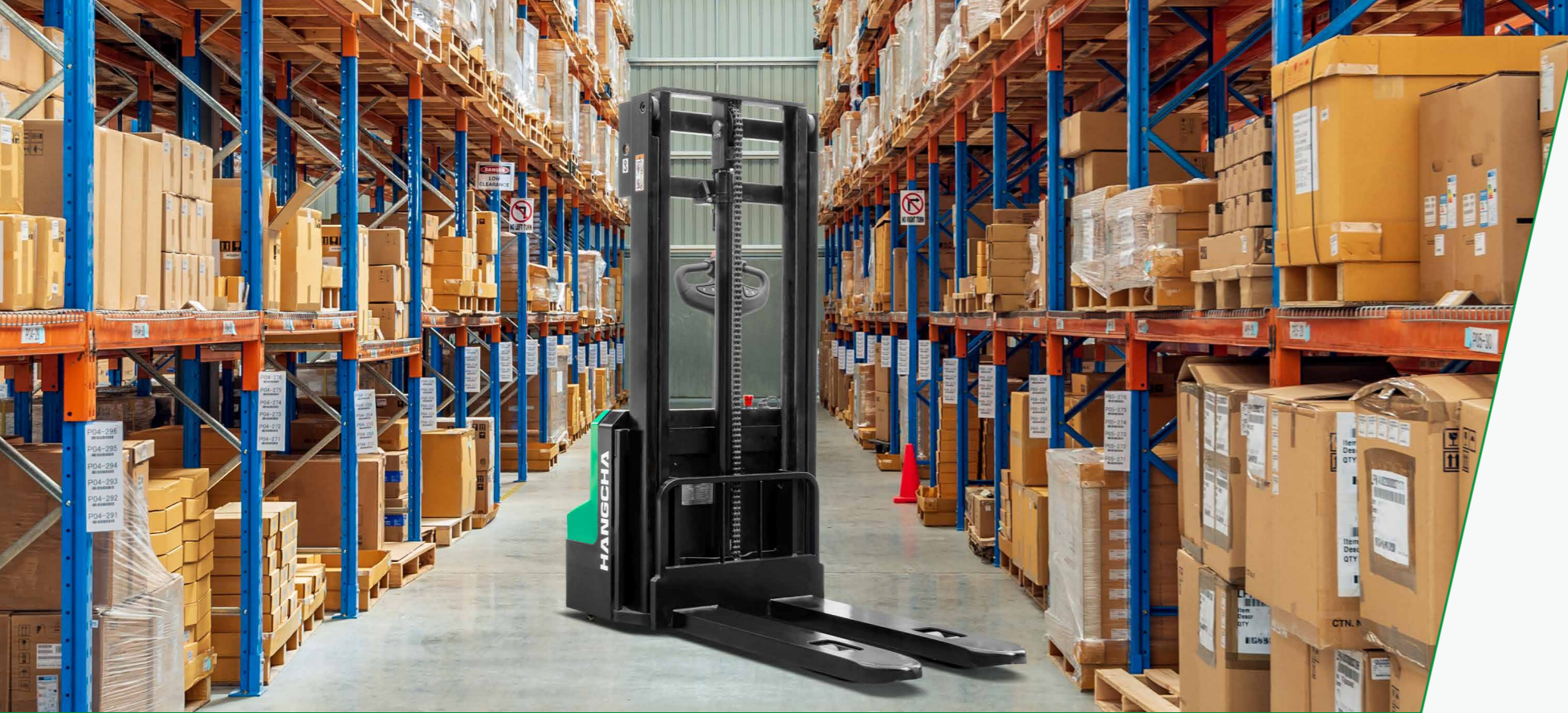
HANGCHA provides Li-ion battery (LiFePO4) with 3 years or 6000 hours warranty.

- Steel stamped formed hood and wheel covers for improved component reliability.
- Electrical connectors from well-known brands with reliable protection for all wiring harnesses and cables, significantly improving electrical system reliability.
- Height adjustable additional wheels for easier drive wheel load adjustment and slip prevention.



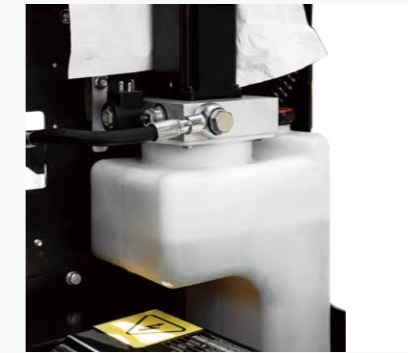
**3 YEARS  
WARRANTY**





## Maintenance

- Permanent magnet brushless motor requires no maintenance.
- Rear hood can be easily removed for clear visibility of components, making overall maintenance very convenient.
- All rotating shafts are equipped with lubricated bushings for easy maintenance and long service life.
- Modular mast design for convenient maintenance.



Side panel can be easily opened for more convenient motor removal and maintenance.



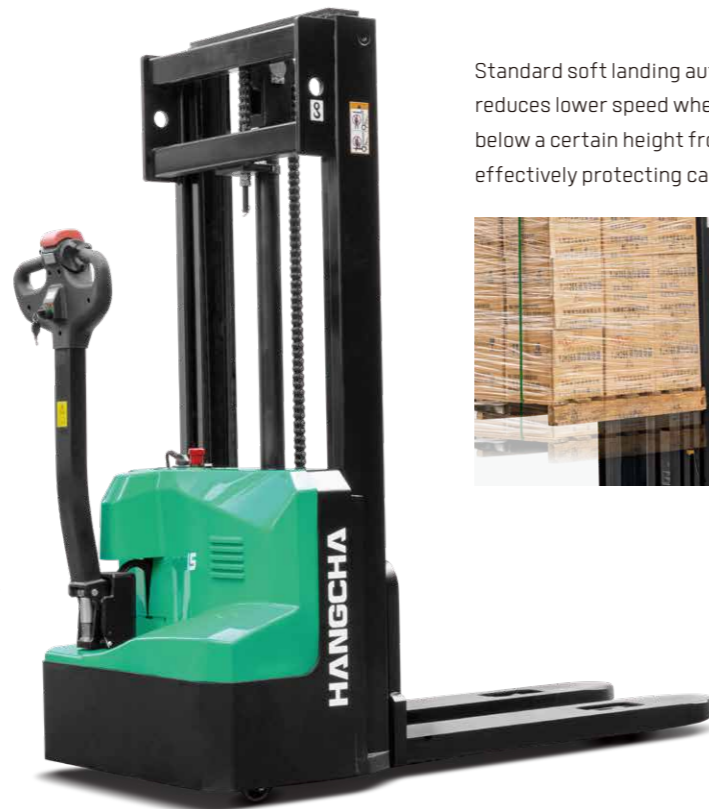
# PROTECT YOUR INVESTMENT.

## Safety

The emergency reverse button on the tiller head can effectively protect the operator from injury when encountering emergencies during reverse travel.



- Equipped with release braking and emergency braking functions to ensure driving safety.
- Equipped with ramp antirollback function to ensure operational safety.



Standard soft landing automatically reduces lower speed when forks are below a certain height from the ground, effectively protecting cargo safety.



## Features

Truck	Standard	Options
48V Permanent Magnet Brushless Motor	●	
Drive Controller	●	
Hydraulic Pump Controller	●	
Hydraulic Power Unit	●	
Polyurethane Wheels	●	
Fork Length 1150mm	●	
Fork spread 680mm	●	
Fork Surface Ground Clearance 85mm	●	
Battery	●	
On-board Charger	●	
Height Adjustable additional Wheels	●	
Dual Load Wheels	●	
Proportional Lifting	●	
Fork Length 1220mm		○
PC Panel		○
Universal Key Switch		○
2-3.6m Mast		○
Controls and instruments		
MultiFunction Tiller with Key Switch and Display	●	
Tiller PressDown Timer		○
Safety		
Horn	●	
Emergency PowerOff Switch	●	
Electromagnetic Brake	●	
Left/Right Rearview Mirrors		○

# LITHIUM POWERED

EMPOWER YOURSELF  
WITH THE BEST



Li  
Lithium

POWER THE POSSIBILITIES  
RELIABLE LITHIUM-ION TECHNOLOGY



## LITHIUM BATTERY ADVANTAGES



### Long service life

2000 full charging cycles with at least 75% residual capacity.



### Return on investment

Add flexibility to your operation, cost-saving in the long term, increased efficiencies.



### Maintenance free

No topping up of water or checking acid levels.



### High energy density

The high energy density of the Li-Ion battery ensures long working times and increases the high availability.



### Cold area application

Li-Ion batteries maintain high performance at temperatures below freezing.



### High safety and reliability

Intelligent battery management monitoring every important function, no emission of battery gasses.



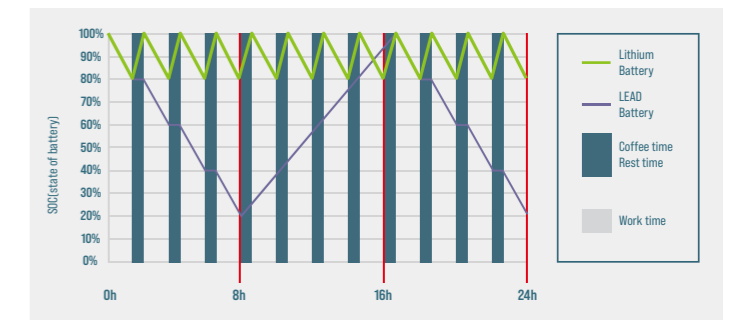
### Opportunity charging

Full performance during several shifts thanks to effective interim charging.

## FEATURES & BENEFITS THE HANGCHA DIFFERENCE

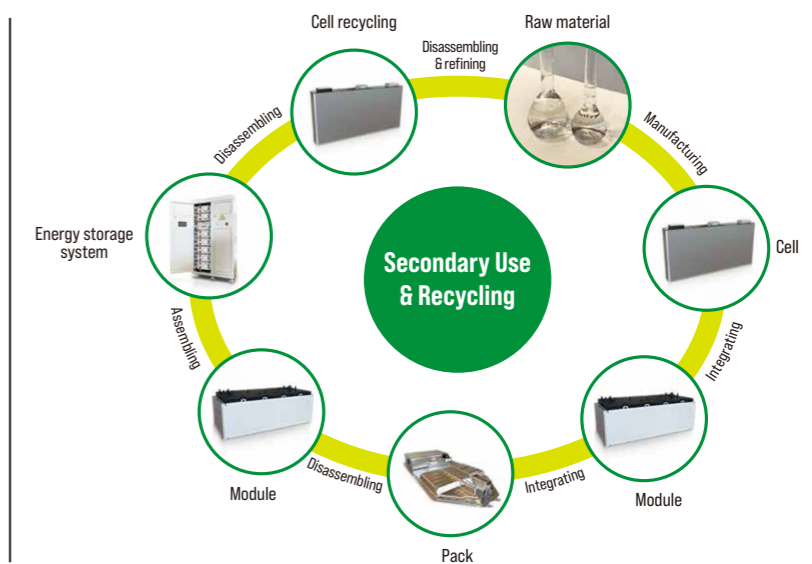
### Efficiency

By quick opportunity charging any downtime, such as a lunch break, can be efficiently used and the battery is recharged in a very short period of time. Interim charging does not affect the battery service life.



### Safety

- / Intelligent battery management monitoring every important function.
- / Higher user safety, thanks to acid-free use.
- / User friendly due to avoided battery change.
- / No emission of battery gasses.



#### QUESTION 1

**Q: What are the characteristics of lithium batteries, especially when used in high and low temperature environments?**

Charging temperature: 0 C - 55 C  
Discharge temperature: -20 C - 65 C  
Storage environment temperature: -20 C - 55 C

After the truck key switch is closed, the instrument battery condition needs to be checked:

1. Confirm that there is no battery system alarm message on the instrument panel.
2. Please check the remaining power before use. It is recommended to use the SOC between 50% and 100%.
3. If the SOC is lower than 20%, it is not recommended to continue using it. Please charge it as soon as possible.

#### QUESTION 2

**Q: What is the charging time and usage time calculation of forklift lithium battery?**

1. Available power of lithium battery (kWh) = rated voltage \* rated power \* 90% (To avoid over-discharge damaging the battery, the forklift is equipped with low power protection [less than 10%]).
  2. Charging time (h) = rated capacity of lithium battery (Ah) \* 90% \* charger output current (A).
  3. The power consumed for charging (kWh) = the available power of the lithium battery \* 93% (the charging efficiency of the charger is calculated as 93%).
  4. Usage time (h) = available power of lithium battery \* energy consumption data.
- For specific energy consumption values, please refer to the technical table on the sharing platform.**

#### QUESTION 3

**Q: How does Hangcha BMS work to ensure the safety of the lithium battery?**

HANGCHA BMS (battery management system) can monitor the cells at all times. As a result, hangcha lithium power is the reliable solution.



#### Battery Safety Management:

- Overcharge/over discharge protection
- Overcurrent/over-temperature/low-temperature protection
- Multi-level fault diagnosis protection
- Double fault monitoring



#### Battery Parameter Detection:

- Battery voltage detection and analysis
- Battery current detection and analysis
- Battery temperature detection and analysis



#### Equilibrium Management:

- Equalization based on voltage mode
- Equalization based on time mode
- Equalization based on battery cell SOC
- Active/passive equalization optional



#### Other Features:

- Low cost, low power consumption
- Historical data record
- Flexible cascade expansion
- CRC data validation