

- Standardized Units for Infinite Flexibility
- Seamless Lead-acid Replacement
- Real-time Battery Monitoring Display and Power Switch
- IP65-rated Protection
- Rapid and Opportunity Charging
- Long Battery Life with Less Maintenance costs
- BMS System to Maximize the Battery Life Time



**EP EQUIPMENT**

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# EP Modular Lithium-ion Battery

Redefining Flexibility for Industrial Electrification



# FEATURES

## EP New Modular Lithium-Ion Battery: The Future, Now Plugged In

After a decade of development in lithium technology and in-house manufacturing, EP proudly unveils a breakthrough that redefines industrial power - the new modular Lithium-Ion Battery.

This isn't just an upgrade—it's an engineered leap that solves two critical pain points holding back electrification, the standardization barriers and the retrofitting difficulty, which makes battery replacement as easy as building LEGO bricks.



## Standardized Units for Infinite Flexibility

The modular Lithium-Ion Battery offers two universal specifications, 1P4S and 1P8S, and the modular system enables limitless capacity configurations through simple core combinations. This eliminates complex custom designs and cuts purchasing and warehousing costs effectively thanks to less SKU inventories. The two standardized solutions with plug-and-play scalability powers all.

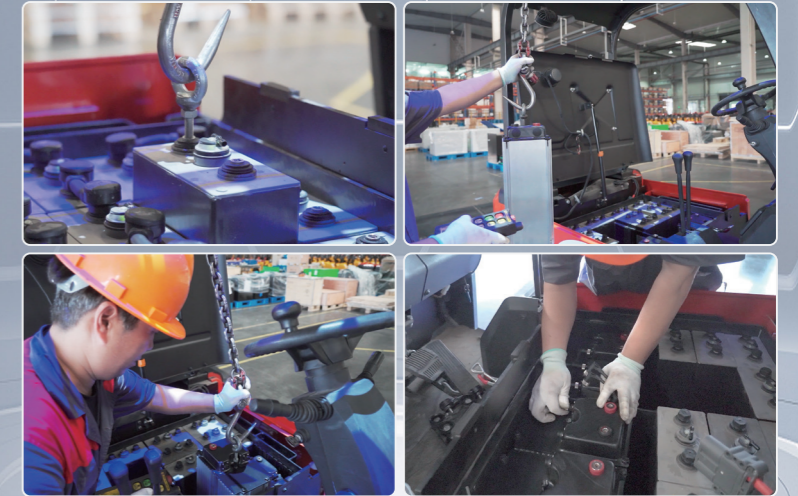
Besides, the standardization brings more stable quality for operation safety guaranteed.



## Seamless Lead-acid Replacement

The modular Lithium-Ion Battery unlocks the trapped value in legacy lead-acid forklift fleets. Usually retrofitting them conventionally costs more than new lithium-ion powered machines. EP's retrofittable battery core changes everything: just open the lead-acid battery box, remove the old cores, and insert EP modular cores and adaptable counterweight blocks.

By seamless replacement, lead-acid equipment transforms into maintenance-free and clean lithium power—zero infrastructure modifications, zero downtime.



## Real-time battery monitoring display and power switch

EP modular Lithium-Ion Battery offers a battery indicator which can be equipped in the cabin. Operators can monitor the battery condition in real time and control power supply during an operation.



## IP65-rated Protection

The modular Lithium-Ion Battery is validated through rigorous safety tests and certificated IP65-rated protection against dust and water ingress. It's engineered for zero compromises in safety and durability, guaranteeing reliable operation in harsh environments.



## Rapid and Opportunity Charging

EP's Lithium-Ion Battery can support 0.5C charging. Operators can take the opportunity of charging during shift breaks, which maximizes uptime. Trucks are always available when needed.

## Long Battery Life with Less Maintenance costs

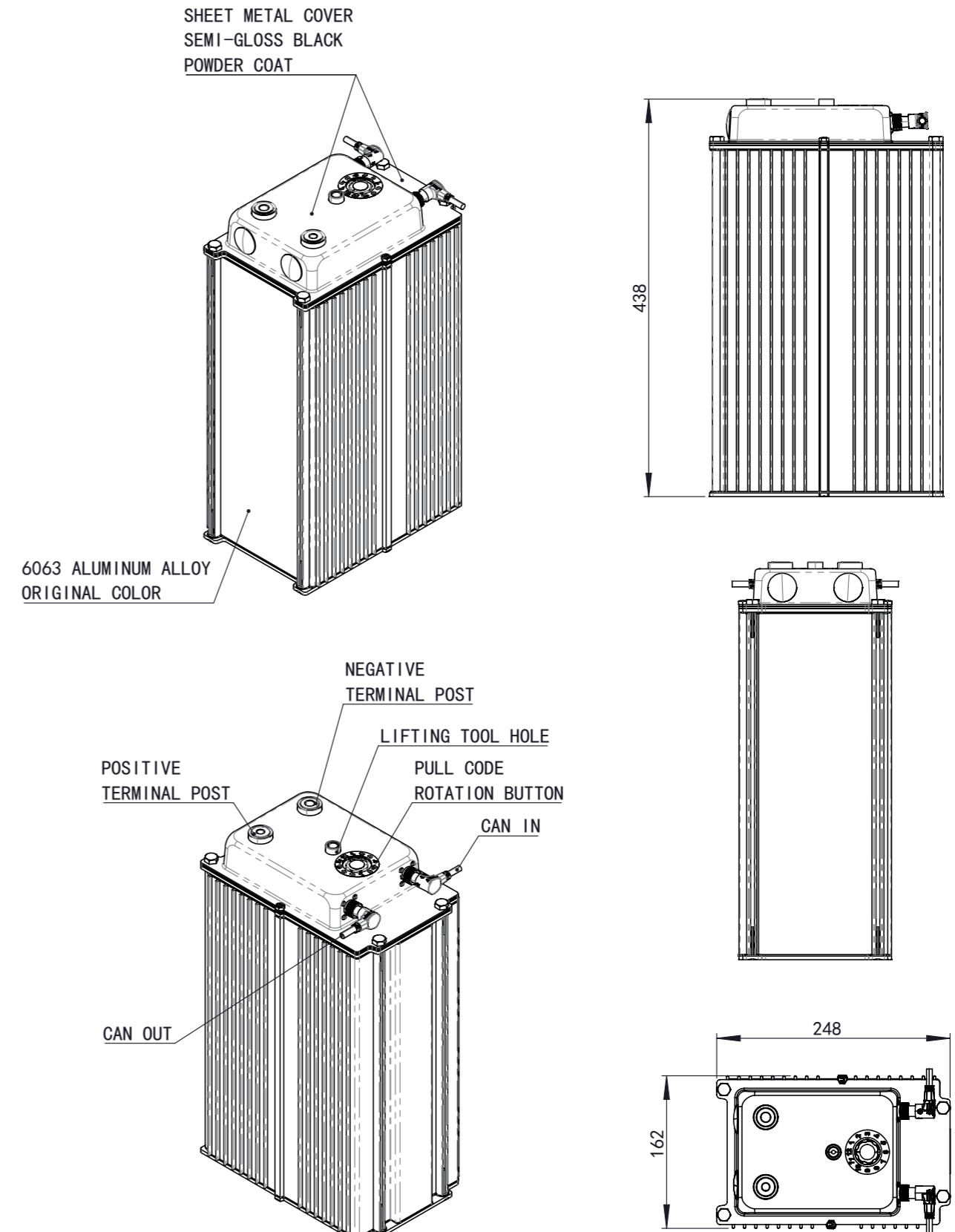
EP's modular Lithium-Ion Battery comes with a naturally long life cycle thanks to Li-ion technology. It is maintenance-free and ensures workplace safety with no water filling, air ventilation, and acid spills required.

## BMS System to Maximize the Battery Life Time

EP's BMS system constantly monitors the status of the battery such as the temperature of the battery cells and it calculates the batteries' state of charge. It keeps the battery in a safe and stable condition.

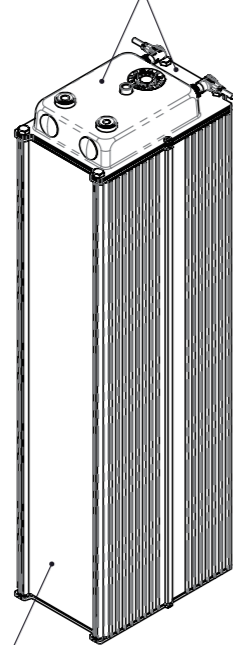


ITEM	1P4S	1P8S
<b>Single Cell Parameters</b>		
Battery Type	LFP	LFP
Nominal Voltage(V)	3.2V	3.2V
Voltage Range(V)	2.5V~3.65V	2.5V~3.65V
<b>Module Parameters</b>		
Box Dimensions(mm)	248*162*438	248*162*778
Battery Weight(kg)	30kg±1kg	55kg±1kg
Cell Configuration	Battery Series	Battery Series
Rated Voltage(V)	12.8V	25.6V
Rated Capacity(Ah)	280Ah @25°C 1C discharging	280Ah @25°C 1C discharging
Voltage Range(V)	10.4V~14.6V	20.8V~29.2V
Total Battery Energy	3.584kWh	7.168kWh
Protection Class	IP65	IP65

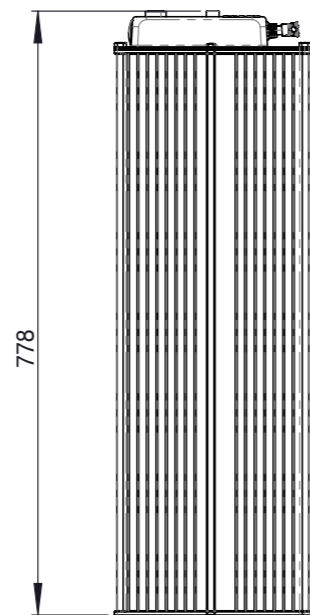


**1P4S BATTERY CORE**

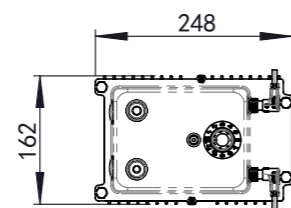
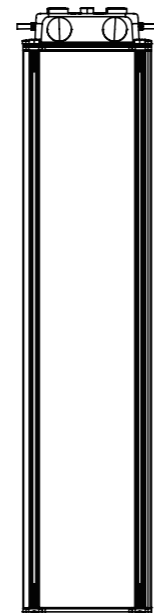
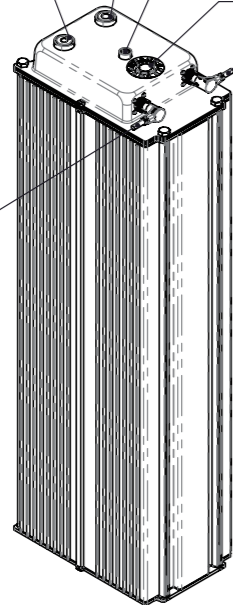
SHEET METAL COVER  
SEMI-GLOSS BLACK  
POWDER COAT



6063 ALUMINUM ALLOY  
ORIGINAL COLOR

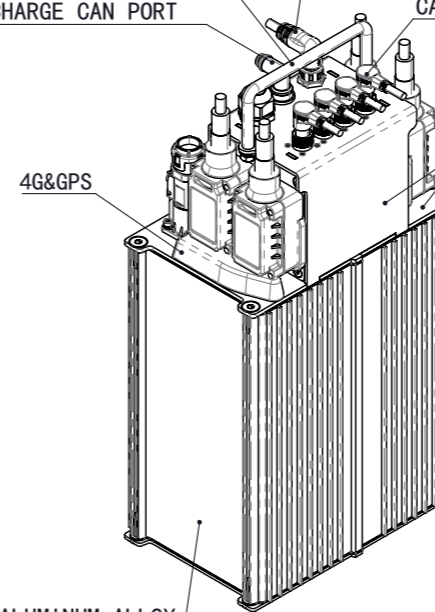


NEGATIVE  
TERMINAL POST  
LIFTING TOOL HOLE  
PULL CODE  
ROTATION BUTTON  
CAN IN  
POSITIVE  
TERMINAL POST  
CAN OUT



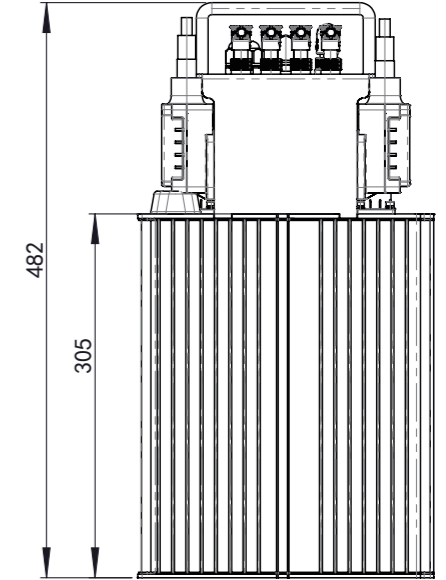
**1P8S BATTERY CORE**

HANDLE  
EXTERNAL DISPLAY OR  
DISCHARGE CAN PORT  
CHARGING CAN PORT  
UNIT BATTERY  
CAN CONNECTION PORT \*4

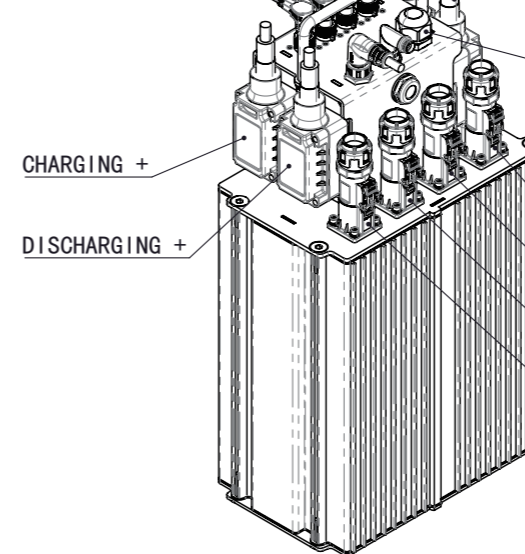


6063 ALUMINUM ALLOY  
ORIGINAL COLOR

SHEET METAL COVER  
SEMI-GLOSS BLACK  
POWDER COAT

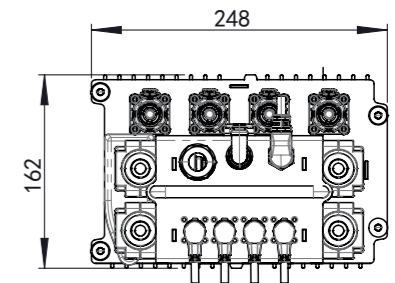
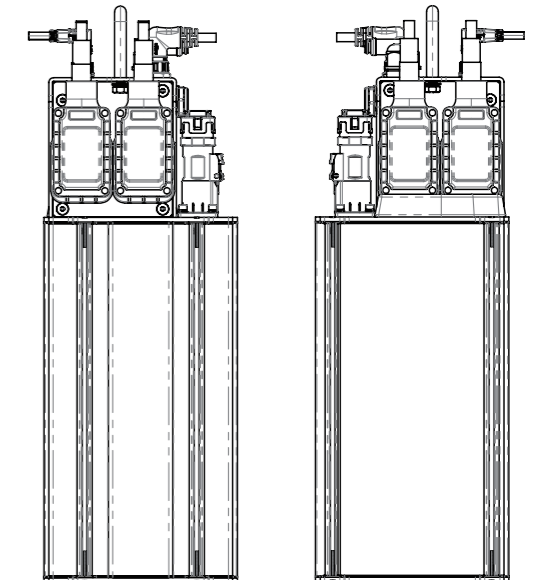


CAN IN 2  
CAN OUT 2  
CAN OUT 1  
CAN IN 1  
CHARGING -  
DISCHARGING -



DC-DC MODULE  
RESERVED PORT

UNIT BATT 2 CIRCUIT +  
UNIT BATT 2 CIRCUIT -  
UNIT BATT 1 CIRCUIT -  
UNIT BATT 1 CIRCUIT +



**24V/48V/80V ELECTRICAL BOX**