LITHIUM



EP ENERGY

EP TYT48560A / TYT48280A Lithium Battery (Toyota 7FB15)

- Fully compatible with Toyota 7FB15
- Productivity boost with opportunity charging
- Long battery life with less maintenance costs
- Lower center of gravity with greater stability
- BMS system to maximize the battery life time
- Real-time battery monitoring display and power switch

LI-ION

EP EQUIPMENT CO.,LTD
www.ep-ep.com

CE

Feature

Fully compatible with Toyota 7FB15

EP TYT48560A/TYT48280A Lithium Battery is specifically designed for Toyota 7FB15, able to perfectly match.



Productivity boost with opportunity charging

EP TYT48560A/TYT48280A Lithium Battery is capable of 0.5C charging. It can be charged up to 7% in 10 minutes. Operators can take advantages of shift breaks to charge the trucks, which can be extremely helpful in reducing downtime.



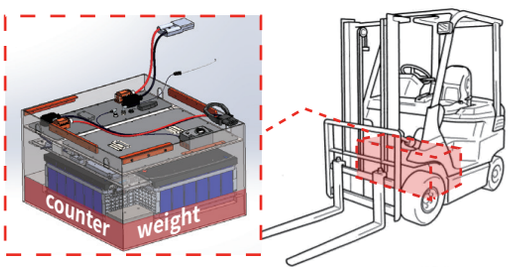
Real-time battery monitoring display and power switch

EP TYT48560A/TYT48280A Lithium 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.



Lower center of gravity with greater stability

Counterweight of EP TYT48560A/TYT48280A is assembled at the bottom of battery modules, which brings 7FB15 forklift lower center of gravity. This ensures the truck stability at a higher level.



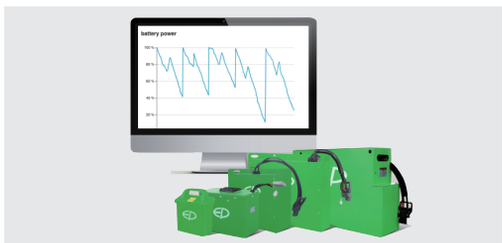
Long battery life with less maintenance costs

EP TYT48560A/TYT48280A Lithium Battery comes with a naturally long life cycle thanks to Li-ion technology. It is maintenance-free and assures workplace safety with no water filling, air ventilation, and acid spills required.

Battery life span (complete charge and discharge cycles)	
Li-ion Battery	Lead-acid Battery
>2000 times	1000 times

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.



Installation

EP TYT48560A/TYT48280A is EP's Li-ion battery that is highly customized for Toyota 7FB15. You can easily swap your forklift battery with EP TYT48560A/TYT48280A Lithium Battery without adjustments in the following five steps:

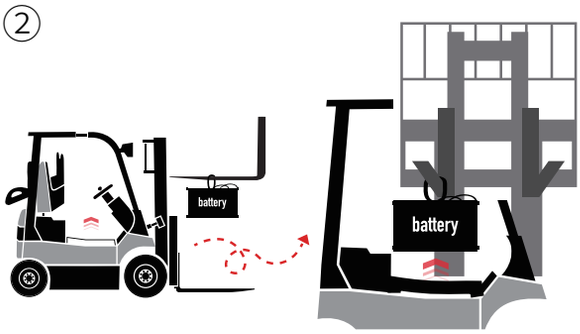
Scan the QR Code to view installation tutorial.

①



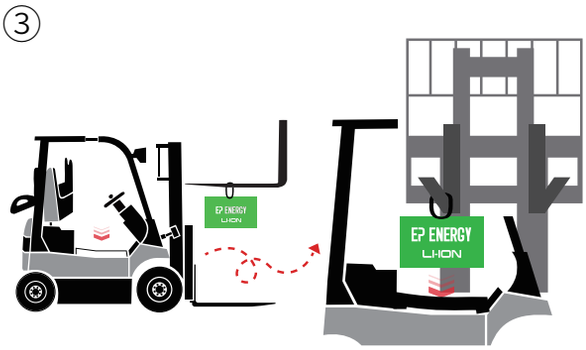
Lift up the driver seat and disconnect the battery.

②



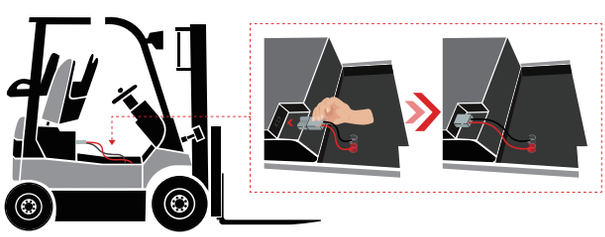
Hang the original battery by another forklift.

③



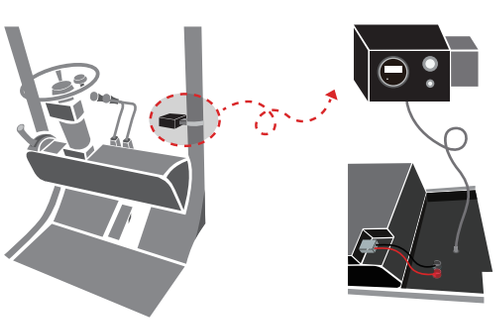
Place the new Li-ion battery in the forklift.

④



Plug in to connect the new Li-ion battery to the forklift.

⑤

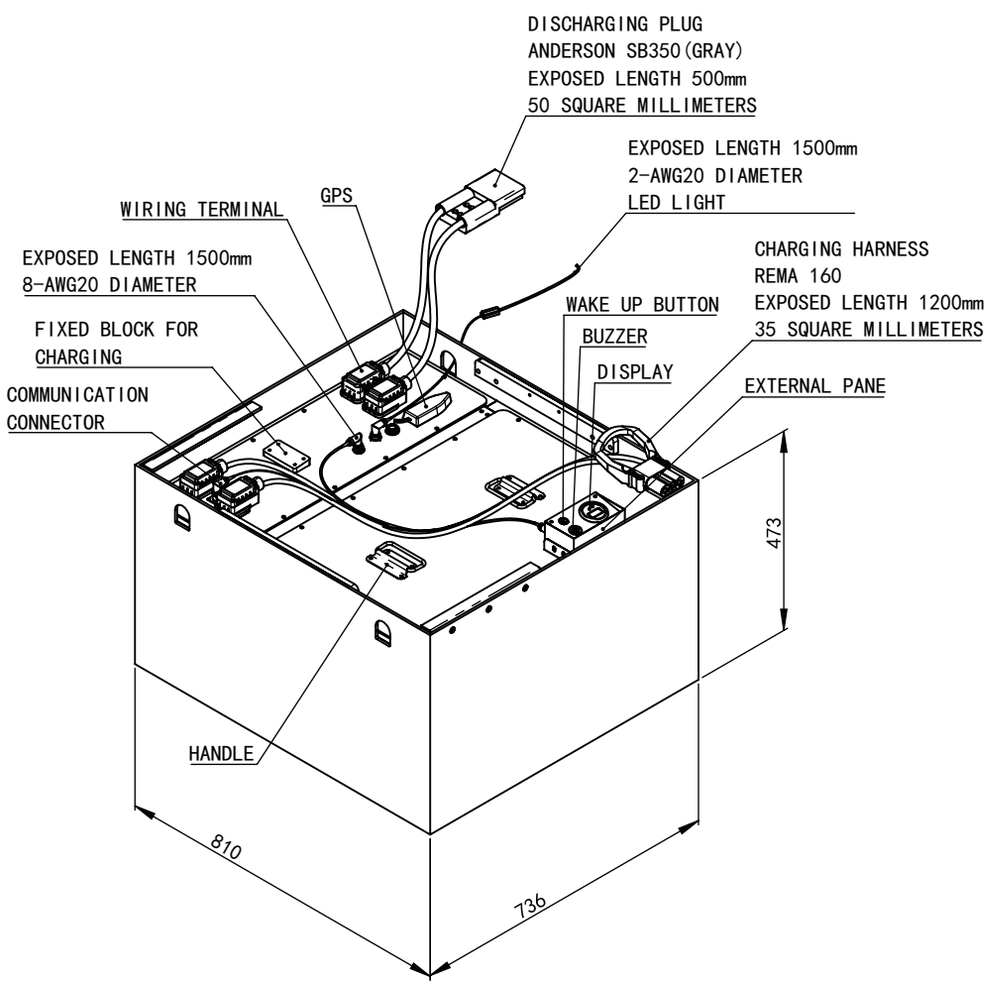


Attach the battery indicator to the cabin.



Parameters

	TYT48560A	TYT48280A
Battery Color	Black	Black
Nominal Capacity(Ah)	560AH	280AH
Nominal Voltage(V)	48V	48V
Standard Discharge Current(A)	320	320
Peak Discharge Current(A)	600	600
Standard Charge Current(A)	150	150
Lift Motor Rating(kW)	9.5	9.5
Drive Motor Rating(kW)	7.6	7.6
Protection Class	IP 54	IP 54
Battery Weight(kg)	655kg	655kg
Box Dimensions(mm)	810*736*473	810*736*473
Operating Temperature-Discharge(°C)	-20°C-55°C	-20°C-55°C
Operating Temperature-Charge(°C)	0°C-40°C	0°C-40°C



Warranty

Save your maintenance effort with EP's superior warranty. We ensure a five-year warranty for the battery cell. Your money will be well spent.

FAQS »

What is the life expectancy of the battery?

Generally, the Lithium ion batteries can live as long as the truck. EP warrants that the Li-ion battery technology will provide you with 2,000 complete charge and discharge cycles and still ensure over 80% of usable capacity. Replacement with Li-ion is not necessary anymore.

What happens if we keep charging the batteries? Does it affect battery life?

EP Li-ion battery comes with battery management systems(BMS). When the battery is fully charged, it will automatically power off. This will not affect the lifetime of Li-ion battery. The battery prefers quick charges. So charging during break times is the new normal way of working with batteries.

How do Li-ion batteries perform in environment of extreme temperatures?

The batteries can run in relatively extreme temperatures, from minus 20 degrees to up to 55 degrees. The more comfortable the battery feels, the longer its lifetime.

Exchanging Li-ion battery, does it affect truck performance

No, a truck performance should not be affected by energy supply. EP TYT48560A/TYT48280A is specially designed as Li-ion replacement to Toyota 7FB15. There is no additional adjustment needed when exchanging the batteries, nor the changes of conditions on driving performance after the installation.

What is BMS system and how does it work?

The BMS plays a crucial role to protect the battery against over and under voltage and over and under temperature. The BMS also balances the cells. This system secures the battery longevity and improves battery performance. Also charging is optimized and charging and discharging cycles are stored in its memory. The data can be read on the display, PC or online with the optional Telematics system.