

MOTREC

LITH UM

SOLUTION



Lithium-ion batteries are a popular choice for powering industrial vehicles due to their high energy density, long life span, and low maintenance requirements. Compared to traditional lead-acid batteries, lithium-ion batteries offer several advantages for industrial vehicles, including:



INCREASED ENERGY EFFICIENCY

Lithium-ion batteries offer a higher energy density than lead-acid batteries, meaning they can store more energy in a smaller space. This results in **increased energy efficiency and longer operating times** for industrial vehicles.



LONGER LIFESPAN

Lithium-ion batteries have a longer lifespan than lead-acid batteries and can last up to **2-3 times longer** with proper care. This reduces the need for frequent battery replacements and downtime for maintenance.



LONGER AUTONOMY

Lithium-ion batteries offer a **20-40% longer operating time** than lead-acid batteries. This reduces the need for frequent battery changes and allows for longer periods of operation between charges, improving productivity and reducing downtime.



FASTER CHARGING AND OPPORTUNITY CHARGING

Lithium-ion batteries can be charged more quickly than lead-acid batteries, reducing downtime for charging and improving productivity. Additionally, lithium-ion batteries can be opportunity charged, meaning they can be charged in short bursts during breaks or downtime, without affecting their overall lifespan. This allows for more flexible charging options and can further **reduce downtime for charging, improving overall efficiency.**



LOWER MAINTENANCE REQUIREMENTS

Lithium-ion batteries are virtually **maintenance-free** when compared to lead-acid batteries, as they do not require regular water topping up or equalization charging.



100% RECYCLABLE

Lithium-ion batteries offer a more sustainable solution for powering industrial vehicles, as they are **100% recyclable** and have a lower carbon footprint than lead-acid batteries.

At Motrec, we offer lithium-ion solutions on most of our industrial vehicles, which are specifically designed for use in heavy-duty applications. Our vehicles are engineered for maximum performance, efficiency, reliability, and safety.

INTRODUCING THE NEXT GENERATION OF BATTERY POWER:

MOTREC'S FULLY INTEGRATED LITHIUM SOLUTION



BUILT-IN BMS

Intelligent battery management system monitors battery (s) voltage, temperature, current, remaining capacity, health, and consumed energy.



LONG BATTERY LIFE

80% capacity after 2000+ cycles at 95%DOD.



TEMPERATURE RANGE

-35 C to 55 C in use
-20 C to 45 C charging

FULL SPECIFICATIONS OF OUR 48V LITHIUM SOLUTION

VEHICLES	ENERGY QUANTITY	CHARGERS CAPACITIES	CHARGING TIME	CHARGER INPUT VOLTAGE	BATTERIES WEIGHT
MS-260/MS-260 XL	6.2Kwh (120Ah)	1.2 Kwh	4h	120V or 240V	83.8 lbs
	9.3 Kwh (180 Ah)	1.2 Kwh	4h		125.7 lbs
		2.4 Kwh	3h	240V	
MC-480	6.2 Kwh (120 Ah)	1.2 Kwh	4h	120V or 240V	83.8 lbs
	9.3 Kwh (180 Ah)	1.2 Kwh	4h		125.7 lbs
		3.6 Kwh	2.5h	240V	
	18.6 Kwh (360 Ah)	3.6 Kwh	4h		251.4 lbs
MT-160/MT-180	6.2 Kwh (120 Ah)	1.2 Kwh	4h	120V or 240V	83.8 lbs
	9.3 Kwh (180 Ah)		4h		125.7 lbs
		2.4 Kwh	3h	240V	
MP-500	6.2 Kwh (120 Ah)	1.2 Kwh	4h	120V or 240V	83.8 lbs
	9.3 Kwh (180 Ah)		4h		125.7 lbs
		3.6 Kwh	2.5h	240V	
	18.6 Kwh (360 Ah)	3.6 Kwh	4h		251.4 lbs
MX-700 / MX-480 AMBULANCE / MX-480 MAINTENANCE TRUCK / MX-480 CRANE TRUCK / MX-480 REFUSE HAULER	6.2 Kwh (120 Ah)	1.2 Kwh	4h	120V or 240V	83.8 lbs
	9.3 Kwh (180 Ah)	1.2 Kwh	4h		125.7 lbs
		3.6 Kwh	2.5h	240V	
	18.6 Kwh (360 Ah)	3.6 Kwh	4h		251.4 lbs

MOTREC INDUSTRIAL LITHIUM BATTERY SOLUTION

VEHICLES	ENERGY QUANTITY	CHARGERS CAPACITIES	CHARGING TIME	CHARGER INPUT VOLTAGE	BATTERIES WEIGHT
MT-280 / MT-290	6,2 Kwh (120 Ah)	1.2 Kwh	4h	120V or 240V	83,8 lbs
	9.3 Kwh (180 Ah)	1,2 Kwh	4h		125,7lbs
		2,4 Kwh	3h	240V	
	12.4 Kwh (240 Ah)	2.4 Kwh	4h		

LITHIUM-READY OPTION

In addition to our fully integrated Lithium battery solution, we also offer a Lithium-ready option for our vehicles. The Lithium-ready option offers the flexibility to install your own Lithium batteries, allowing you to customize your power source to meet your unique needs.

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