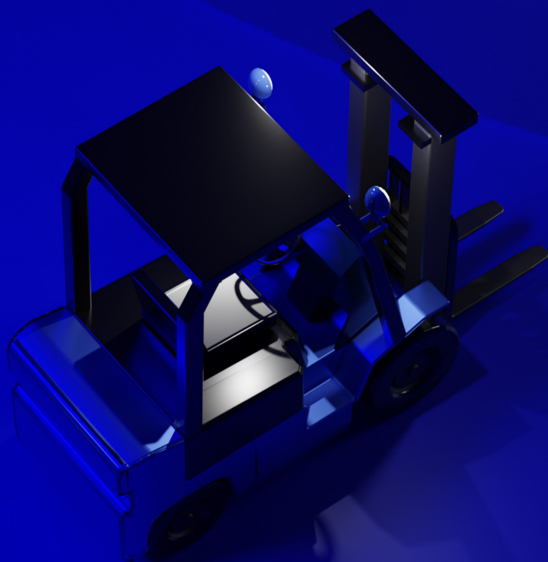
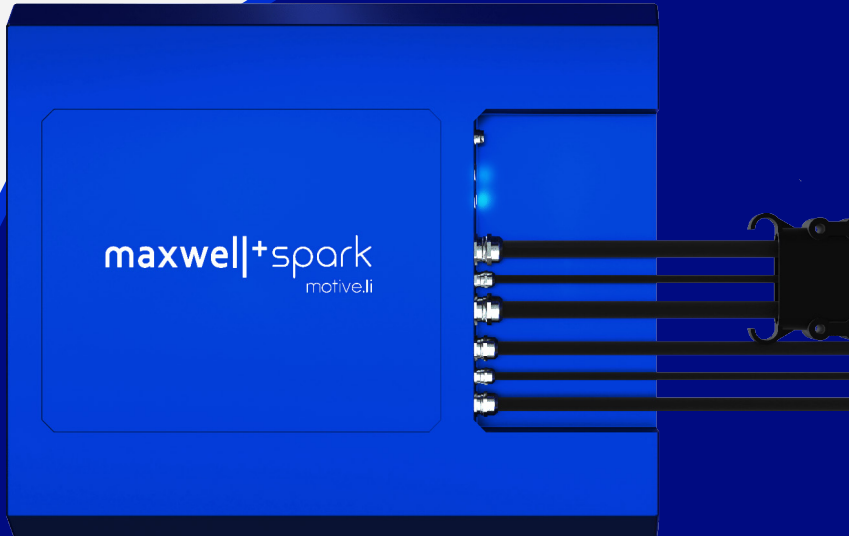


maxwell+spark  
motive.li



Green  
energy...



...sometimes  
looks  
blue.

---

**motive.li is the industry-leading li-ion battery solution for forklifts,  
tow tractors, ground support equipment and everything in between.**

Simply plug and play to change over from your lead acid battery and benefit from unrivalled lifetime cost and carbon emission savings.

# Materially better.

More power, lower lifetime cost per shift



In a class of its own.

- + Higher upfront expenses are quickly offset due to longer lifespan, maintenance and electricity savings
- + Our cutting-edge battery technology enhances all applications; single shift to 24/7 triple shift
- + Proven performance up to 6000+ cycles, built on green tech delivering 20% - 95% carbon savings

# No compromises.

The best in everything, for the best price



Industry-leading warranty



Unrivalled cycle life



Robust design



Exceptional after-sales



Intrinsically safe



Highly recyclable  
Eco-friendly



Material handling equipment



Ground support equipment



Cleaning equipment



## Basic specifications.

	CORE	HARDCORE
Cycle life	6000+	6000+
Warranty	3000 cycles / up to 6 years	3200 cycles / up to 6 years
Operating temperature	-5°C to 50°C	-30°C to 60°C
Voltage range	24 V to 96 V	24 V to 96 V
Capacity range	85 Ah to 1400 Ah	85 Ah to 1400 Ah
Charger range	60 A to 600 A	60 A to 600 A

# Reliably rewarding.

Incredibly competitive cycle life with the best warranty



lead acid



average li-ion



Warrantied life



Expected life

# Uncompromising design.

Designed from the ground up to be the best in safety, reliability and innovation



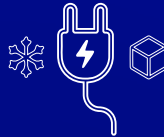
Operating temperatures from -30°C to 60°C



Modular and easily serviceable



IP65 rated



Vibration damping  
Passive cell cooling  
Cell geometry restraint

# Advanced fleet management.

+ 24/7 telematics system ensures you get the most out of your fleet

+ With fleet-wide analysis and reporting on any device, anywhere in the world



# Advantages of li-ion over traditional lead-acid batteries



## Increased safety

No acid-spillage, hydrogen off-gassing or battery fire risk



## Reduced CO<sub>2</sub>

Li-ion is recyclable and non-toxic



## High electrochemical efficiency

Increased runtime and lower electricity costs



## Longer cycle life

8+ year life when fully cycled daily



## Rapid charging

24/7 availability of machines



## Maintenance-free

No water filling or equalisation charges required



## Reduced size and weight

Smaller machines allow increased maneuverability



## No cooldown periods

No battery change-overs required



## No ventilation required

Special charging areas not needed



## Reliable and resilient

Less damage from demanding conditions

## Fully integratable.

- + Our batteries can integrate with machines over CAN or by using a proprietary analogue method, which ensures accurate display of battery SoC and that all the machine's built-in safety systems remain active
- + External State of Charge (SoC) screen available as standard

## Optimised charging.

- + Fully-charged in less than 1 hour with true high frequency digitally-controlled chargers. Use one charger across all your batteries, no matter the voltage
- + Opportunity charging during breaks in operation to enable 24/7 uptime with a single, smaller battery

## Safe and certified.

- + All-digital, triple layer over-charge and over-discharge protection  
Cell-level thermal and electrical monitoring, balancing and protection
- + Cell Certifications: UN38.3, UL1642, IEC62619  
Designed to meet: IEC62619, UL2580 (certification in progress)  
ISO 9001, ISO14001 and ISO45001 (implemented/certification in progress)

"We have chosen to use **maxwell+spark's** li-ion motive battery solution as we believe they offer the very best products and service in the industry"

- **Goscor South Africa**





## Cool tech. Cooler world.

Empowering industrial users to transition to cleaner, intelligent alternatives



## 100+ users.

Across four continents



## Relentless engineering.

Constant iterations keeps us ahead of the curve



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