

## TWS Material Handling Modular Battery Solutions



Environmental sustainability has become the major consideration of logistics vehicles' operation on a global level, thus contributing to the positive impact on cost containment and improvement of human health.

TWS material handling modular Lithium-ion battery solutions provide power for current and future eForklift and autonomous mobile robots (AMR) used in the industrial workspace with the advantages of easy maintenance, long service hour, low degradation, reduced total cost of ownership and quick charge technology available.

### Why TWS?

- ◆ We offer optimized cell energy and modular assembly design, with our BMS options for a variety type of eForklift and autonomous mobile robots.
- ◆ Continuous roadmap on standard solutions making the universal products compatible with 4x the number of SKUs required for simple plug and play applications.
- ◆ Best in class cell chemistry to achieve high energy level and long cycle life.
- ◆ TWS' s recycling program achieves environmentally friendly standards.



# TWS Modular Material Handling Battery PACK



Model	TWS-MH-5139-LFP	TWS-MH-5152-LFP
Cell	LFP 26650	LFP 26650
Configuration	16S13P	16S13P
Capacity (typical)	39 Ah	52 Ah
Nominal voltage	51.2V (48V system)	51.2 V (48V system)
Rated energy	1996.8 Wh	2662.4 Wh
Charge current rate	60 A (120 A 180 sec)	52 A
Discharge current rate	80 A (180 A 15 sec)	52 A
Weight	29 kg	
Dimensions	272 x 385 x 248 (mm)	
Cycle life	Capacity ≥80% after 3000 cycles (@25°C)	
Operating temperature	Charge: 0°C ~ +55°C Discharge: -20°C ~ +60	
Communication type	CAN	
IP rating	IP33	
Protection	Overcharge protection, short circuit protection, low temperature disconnect, over discharge Protection, over current protection	
Certification	UL 2271, IEC 62619, CE EMC, RoHS, REACH, UN38.3	

TWS Technology

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