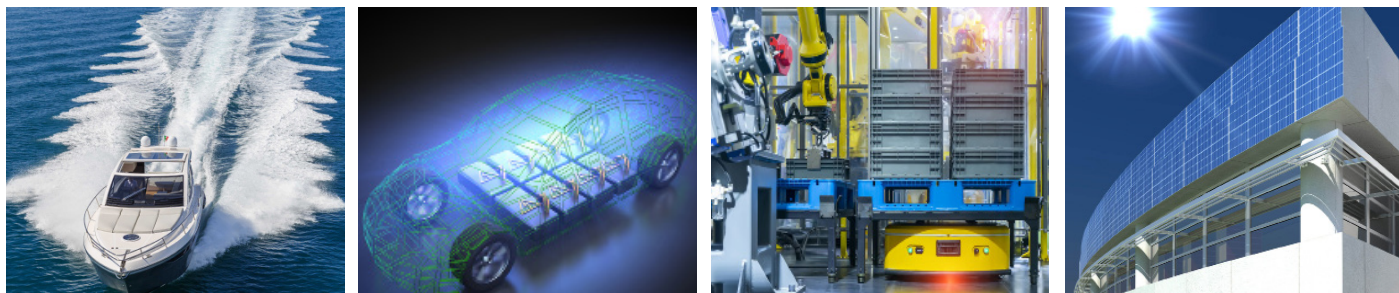
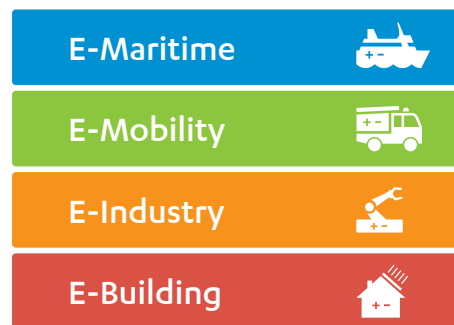


2 kWh LI-ION BATTERY - TYPE M (60 A)

STANDARD ENERGY-MODULE

SCALABLE, SAFE, TURN-KEY READY



- Dust- and Water Protection: IP 66
- Robust Metal Housing
- Fast Charging Capable
- Operational Temperature: -20°C to +60°C
- 360° Mechanical Integration
- Modular and scalable Configuration
- Recycle- and Reusable
- Safety: Integrated BMS
- Plug & Play
- Made in Germany

Technical Data	12 Vdc - M	24 Vdc - M	48 Vdc - M
Type	A12020M	A24020M	A48020M
Module-Capacity (Ah)	139 Ah	81,2 Ah	40,6 Ah
Module-Energy (Wh)	2046 Wh	2046 Wh	2046 Wh
Discharge Constant Power Max. (A) 3C	860 W @ 60 A	1.500 W @ 60 A	3.000 W @ 60 A
Charge Constant Power Max. (A) 0,7C	860 W @ 60 A	1.400 W @ 60 A	1.400 W @ 60 A
Nominal Voltage (Vdc)	14,4 Vdc	25,2 Vdc	50,4 Vdc
Operational Voltage	12 Vdc <=> 16 Vdc	21 Vdc <=> 28 Vdc	42 Vdc <=> 56 Vdc
Cell Chemistry	Li-NMC		
Dimensions (L x W x H)	422.2 mm x 310 mm x 115 mm		
Housing	3 mm Alu-Die Cast		
Temperature Range	Discharge: -20 °C bis +60 °C / Charge: 0 °C bis +50 °C		
Water / Dust Protection	IP66		
Humidity / Operational Elevation	5 to 95 % / < 4.000 m		
Configuration / Communication	parallel		
Safety Detection	Overcharge-/ Deep Discharge Protection, Temperature monitoring		
Functions	Cell Balancing, MOSFET		
Weight	Ca. 22 kg		
Cycle-Life	Approx 3.000 cycles / 80 % DoD @ 20 °C		
Certificates	CE-2014-30-EU (EMC) EN 61000-62:2005, EN6200-6-3:2007, ISO16315:2006 Small Craft Standard, UN38.3, CB IEC62133, IP66, ECE-R10 (EMC) - Automotive, IEC 60945-(EMC) Marine, DNV-GL Type Approved, IEC62619 - Safety (DNV GL), IEC62620 - Performance (DNV GL)		
Standards	CE-93-68-EU, CE-Battery Directive 2006-66-EC, CE-Low Voltage Directive 2014-35-EU, CE-RoHS 2011-65-EU, CE-Asbestos Directive 203-18-EU, ISO16315:2006 Small Craft Standard, Outgoing Test VDE 0100 Part 610, Outgoing Test VDE 0701-702		