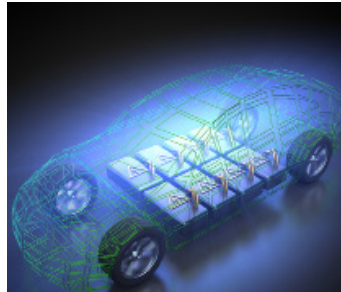




1 kWh LI-ION BATTERY - TYPE M (60 A)

STANDARD ENERGY-MODULE

SCALABLE, SAFE, TURN-KEY READY



Dust- and Water Protection: IP 66



Modular and scalable Configuration



Robust Metal Housing



Recycle- and Reusable



Fast Charging Capable



Safety: Integrated BMS



Operational Temperature: -20°C to +60°C



Plug & Play



360° Mechanical Integration



Made in Germany

Technical Data	12 Vdc - M	24 Vdc - M*	48 Vdc - M
Type	A12010M	A24010M	A48010M
Module-Capacity (Ah)	69,9 Ah	40,6 Ah	20,3 Ah
Module-Energy (Wh)	1006 Wh	1023 Wh	1023 Wh
Discharge Constant Power Max. (A) 3C	860 W @ 60 A	1500 W @ 60 A	3000 W @ 60 A
Charge Constant Power Max. (A) 0,7C	690 W @ 48 A	714 W @ 28 A	700 W @ 14 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)	400 mm x 160 mm x 90 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. 9 kg		
Cycle-Life	Approx 3000 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		
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		