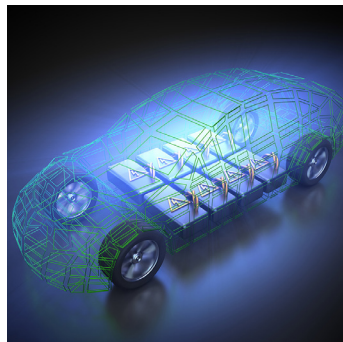




1 kWh LI-ION BATTERY - TYPE M (60 A)

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 Information

Technical Information	12 Vdc - M	24 Vdc - M*	48 Vdc - M
Type	A12010M	A24010M	A48010M
Module-Capacity	69,9 Ah	40,6 Ah	20,3 Ah
Module-Energy	1006 Wh	1023 Wh	1023 Wh
Discharge Constant Power Max.	720 W @ 60 A	1440 W @ 60 A	2880 W @ 60 A
Nominal Voltage	14,4 Vdc	25,2 Vdc	50,4 Vdc
Operational Voltage	12 Vdc <=> 16 Vdc	21 Vdc <=> 28 Vdc	42 Vdc <=> 56 Vdc
Energy Density	126,3 Wh/kg		
Cell Chemistry	Lithium-Ionen – Li-NMC – 3,6 Vdc – 2,9 Ah		
Dimensions (L x W x H)	400 mm x 160 mm x 90 mm		
Housing	Aluminium Die Cast		
Temperature Range	-20 °C to +60 °C – Discharge / 0 °C bis +50 °C – Charge		
Water / Dust Protection	IP 66		
Humidity / Operational Elevation	5 to 95 % / < 4.000 m		
Configuration	parallel		
Safety Detection	BMS - Module and cell series monitoring		
Functions	Overcharge - / Deep Discharge – Protection, Temperature monitoring, Passive Balancing (150 mA)		
Weight	Approx. 9 kg		
Cycle-Life	Approx. 3.000 cycles with 80 % discharge depth at +20 °C		
Certificates and Standards	UN 38,3, CE, RoHS, UL 94 VO, EN 61000-6-2:2005, EN 61000-6-3:2007, IEC-62133		