

2 kWh LI-ION BATTERY - TYPE R (300 A)

STANDARD ENERGY-MODULE

SCALABLE, SAFE, TURN-KEY READY

E-Maritime

E-Mobility

E-Industry

E-Building



Dust- and watertight: IP 66



Safety:
Integrated Battery Management System



Robust:
Alu Die Cast Housing



360° Mechanical Integration



Operational Temp.
-20 °C to +60 °C



Parallel configurable



Recycle-and Reusable



Fast Charging Capable



TECHNICAL INFORMATION	12 Vdc - R	24 Vdc - R	48 Vdc - R
Type	A12020R	A24020R	A48020R
Module-Capacity	139 Ah	81.2 Ah	40.6 Ah
Module-Energy	2004 Wh	2046 Wh	2046 Wh
Discharge Constant Power Max	3.600 W @ 300 A	7.200 W @ 300 A	14.400 W @ 300 A
Nominal Voltage	14.4 V DC	25.2 V DC	50.4 V DC
Operational Voltage	9 Vdc <=> 16.4 Vdc	21 Vdc <=> 28.7 Vdc	42 Vdc <=> 57.4 Vdc
Energy Density	120.4 Wh/kg		
Cell Chemistry	Lithium-ion – Li-NMC – 3.6 V DC – 2.9 Ah		
Dimensions (L x W x H)	442.5 mm x 310 mm x 115 mm		
Housing	Aluminium Die Cast		
Communication / Wake-up	E-Switch, CAN-open, Charger-Switch		
Expected Operational Life	> 5 Years (+20 °C)		
Temperature Range	-20 °C to +60 °C		
Water / Dust Protection	IP 66		
Humidity	5 to 95 %		
Operational Elevation	< 4000 m		
Safety Detection	BMS - Module and cell series monitoring		
Safety Detection-Functions	Overcharge-/ Deep Discharge- Protection, Temperature monitoring, Passive Balancing (150 mA), Service Disconnect		
Warranty	3 years		
Weight	19 kg		
Cycle-Life	> 3000 cycles with 80 % discharge depth at +20 °C		
Certificates	UN 38.3, CE, RoHS, UL 94 V0		

aentron Energy Solutions is a developer and manufacturer of lithium-ion energy storage products for industrial and private applications.

Industries

E-Industry, E-Maritime, E-Mobility, E-Building

Modifications and errors reserved

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aentron develops and produces in Germany.

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