

**51.8 V | 32 Ah nominal | 1657 Wh | VKB: 56654 799 097**



\* Illustration only

### GENERAL (Battery with safety circuit and plastic / metal combination)

Size (l x w x h) in mm	230 x 330 x 80
General	Lithium-Nickel-Manganese-Cobalt-Oxide with BMS
Communications	CAN Bus (CanOpen)
Weight	Approx. 10 kg

### ELECTRICAL SPECIFICATION

Power connection	Negative terminal: M6 (six) screw type, rated female terminal Positive terminal: M8 (eight) screw type, rated female terminal
CAN BUS connection	Type: 2x (two) M12-5, plug, female sockets Mating style: screw thread Coding: A Model: Tyco Electronics T4111002051-000 or similar
Nominal voltage	51.8 V
Nominal capacity (0.2 C; 2.50 V discharge)	32 Ah
Nominal energy	1.657 Wh
Charging method	Constant current + constant voltage
Max. charge voltage	58.8 V (not for cycle life)
Rec. charge voltage	58.1 V
Max. charge current	31 A (not for cycle life)
Rec. charge current	10.3 A
Rec. charge cut off	Current < 1.0 A
Rec. discharge cut off	42 V
Max. continuous discharge current	60 A (not for cycle life)
Rec. discharge current	15.5 A
Exp. cycle life at (0.3 C / 0.5 C), 22 °C ± 2 °C	≥ 80 % of initial capacity at 1.000 cycles

### CELL & BATTERY PROTECTION

Safety function	Over/under temperature, over/under voltage, over current short circuit
Fuse	100 A

### ENVIRONMENTAL CONDITIONS

Charge	0 °C to +45 °C
Discharge	-20 °C to +55 °C
Storage	1 to 3 months at -20 °C to +45 °C 1 year at -20 °C to +24 °C
Humidity	25 to 85 RH %
IP rating	IP30, not water resistant

### SAFETY CERTIFICATIONS

Please follow VARTA handling and safety precautions for Lilon & LiPolymer.  
The cell used is a UL recognized component according to UL1642.  
This battery meets the requirements of battery directives and the battery parts are RoHS-compliant.  
This battery is certified to according to IEC62133-2:2017 and UN38.3.

### FEATURES

- Active cooling for improved lifetime.
- Easily connected up to 25 modules in parallel for higher capacities.
- Housing with locking feature for easy attachment to adjacent module.
- No external battery management needed. Automatic master-slave status established.
- Zero maintenance, zero emissions.
- Limited 2 year warranty.

Minimum order quantity: 250 pcs / Order multiples: 50 pcs - Product for OEM customers only. Distributor MOQs may vary.