

# Easy Blade 48

## 51.8 V | 29 Ah | 1502 Wh | VKB: 56654 799 092

VARTA Storage GmbH - Rev No. 10421



\*Illustration only

### **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: TE part number T4111002051-000

Nominal voltage 51.8 V
Typical capacity 29 Ah
Typical energy 1502 Wh

Charging method Constant Current + Constant Voltage

Max. charge voltage 58.11

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 31 A

Max. pulse discharge

current

65 A for 3 sec. and 60 A for 30 sec.

Rec. discharge current 15.5 A

Exp. cycle life at (0.5 C / 0.5 C), 22 °C ± 2 °C

≥ 80 % of initial capacity at 1,200 cycles

#### **GENERAL**

(Battery with safety circuit and plastic/metal combination)

Size (l x w x h) in mm 330 x 80 x 230

General Lithium-Nickel-Manganese-Cobalt-Oxide

with BMS

Communications CAN Bus (CANopen)
Weight Approx. 9.6 kg

### **CELL & BATTERY PROTECTION**

Safety function | Short circuit protection: 300A / 0.1ms

Over discharge current protection 1: 65A / 5s; level 2: 85A / 50ms Over charge current protection 1: 65A / 5s: level 2 85A / 50ms

Fuse 100A

#### **ENVIROMENTAL CONDITIONS**

Charge  $0 \,^{\circ}\text{C} \, \text{to} + 50 \,^{\circ}\text{C}$ 

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 IP 30, 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 according to IEC62133-2:2017, UN38.3. UL 2595 and IEC 60335

### **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
- Water sealed power connectors

Minimum order quantity: 260 pcs / Order multiples: 20 pcs Product for OEM customers only. Distributor MOQs may vary.