

# Lithium Battery 48v 13600wh

## Specification sheet

Version 1.1

### General

EAN / Article Number	8721082427012
Nominal energy capacity	13600 Wh
Nominal capacity	266 Ah
Useable capacity	258 Ah
Capacity @25A	620 min
Nominal voltage	51,2 V
Charging voltage	56,8 V
Discharging voltage	43,2 V
Continuous discharge rate	150 A
Max quick charge	130 A
Max peak discharge rate (2s)	400 A
Max peak discharge rate (10s)	300 A
Weight	119 kg
Size (LxWxH)	1295 x 253 x 227 mm
Size (excluding feet)	1295 x 253 x 212 mm
Bluetooth	Yes, iOS / Android
Case material	3.5 mm Aluminium

### Use information

Ambient temperature discharging	-18 to 55 °C
Ambient temperature charging	2 to 45 °C
Ambient temperature storage	-25 to 55 °C
Typical storage time at 50% SoC	40 weeks
Max connections	Up to 1S8P
Protection class (exluding salt water)	IP67

### Lifetime data

Cycle lifetime *	4000 cycles
Average annual capacity loss	≈2% at 25 °C
Ideal storage temperature	-25 to 55 °C

\* with 80% discharge depth at 25°C to capacity loss of 20% at 0.5C

### Battery composition

Cell type	Cylindrical
Chemistry	LiFePO <sub>4</sub>
Capacity per cell	6,05 Ah
Nominal voltage per cell	3.2 V
Cell configuration	16s44p

### Battery management & Safety

On-off switch	Yes
Terminals	Click
Cell balancing, passive	Yes
High current & short circuit protection	Yes, up to 1500 A
Deep discharge protection	Yes
Protection against polarity reversal	Yes
Individual cell string voltage monitoring	Yes
Safety vent for each cell	Yes
Cell temperature monitoring	Yes
Temp. monitoring battery electronics	Yes
Shipping classification	UN3480 CLASS 9
Certifications/compliance battery	CE UN38.3 RoHS
Certifications/compliance battery cells	UL CE IEC62133 IEC62619 EC61960 BIS PSE RoHS UN38.3