

# Lithium Battery 48v 6800Wh

## Specification sheet

Version 1.1

General		Battery composition	
EAN / Article Number	8721082427005	Cell type	Cylindrical
Nominal energy capacity	6800 Wh	Chemistry	LiFePO <sub>4</sub>
Nominal capacity	133 Ah	Capacity per cell	6,05 Ah
Useable capacity	129 Ah	Nominal voltage per cell	3.2 V
Capacity @25A	310 min	Cell configuration	16s22p
Nominal voltage	51,2 V	<b>Battery management &amp; Safety</b>	
Charging voltage	56,8 V	On-off switch	Yes
Discharging voltage	43,2 V	Terminals	Click
Continuous discharge rate	150 A	Cell balancing, passive	Yes
Max quick charge	80 A	High current & short circuit protection	Yes, up to 1500 A
Max peak discharge rate (2s)	300 A	Deep discharge protection	Yes
Max peak discharge rate (10s)	200 A	Protection against polarity reversal	Yes
Weight	61 kg	Individual cell string voltage monitoring	Yes
Size (LxWxH)	695 x 253 x 227 mm	Safety vent for each cell	Yes
Size (excluding feet)	695 x 253 x 212 mm	Cell temperature monitoring	Yes
Bluetooth	Yes, iOS / Android	Temp. monitoring battery electronics	Yes
Case material	3.5 mm Aluminium	Shipping classification	UN3480 CLASS 9
<b>Use information</b>		Certifications/compliance battery	CE UN38.3 RoHS
Ambient temperature discharging	-18 to 55 °C	Certifications/compliance battery cells	UL CE IEC62133 IEC62619 EC61960 BIS PSE RoHS UN38.3
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		
<b>Lifetime data</b>			
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