

# freedom WON

## Freedom Lite Mini Range

The Mini range is designed for entry level Lithium storage solutions providing maximum value per kWh without compromising on longevity and performance by using the same high quality LiFePO4 cells as in the standard Lite ranges. For systems requiring less than 5kWh refer to Freedom Won 12V LiFePO4 range.

### SUMMARY DATASHEET

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Freedom Lite Mini	Mini 5/4	Mini 10/7
Max Energy at 100% DoD [kWh]	5	10
Current Capacity [Ah]	100	200
Max/Cont Discharge Current [A] (1)	150/130	220/190
Max/Cont Charge Current [A] (1)	100/50	200/100
Max Inverter Capacity [kVA]	5kVA	10kVA
Nominal Voltage [V](2)	52	
Charge Voltage [V] (3)	55,8V Maximum (acceptable range 55,2V to 55,8V)	
Minimum Voltage [V] (3)	47V (100% DoD)	
Weight [kg]	50	100
Dimensions on or against wall - Height x Width x Depth [mm]	570x372x265	916x372x265
Enclosure	Aluminium, White Coated, including feet and handles	
DC Connection	DC "Anderson" Plug (SB175) with 35mm <sup>2</sup> power cable (mating plug and cables included with Mini)	
Protection	Internal protection of cells for over and under voltage, pack overcurrent protection, cell temperature range protection	
Service Life	70% DoD – >5 000 cycles – 15 years 90% DoD – >3 000 cycles – 10 years	
Warranty	10 years product warranty with 70% DoD average per cycle up to 3 500 cycles (whichever occurs first)	

- 1) Max discharge current for 1 minute, max charge current for 5 minutes
  - **Caution! Do not connect equipment to this battery that can cause these limits to be exceeded! Damage as a result is not covered by warranty.**
- 2) The Mini's are available in 26V on request. **Note that the power output is halved for a 26V model compared to the 52V model. The maximum inverter size for a 26V Mini 5/4 is 3kVA. For the 10/7 Mini 26V the maximum inverter size is 5kVA.**
- 3) Correct Setting of these voltage values into the inverter(s) and DC charge controller(s) is critical for proper operation of the Lite Mini. Failure to observe these parameters accurately may result in product damage and incorrect operation.

Note: The Mini range does not include interfacing for external equipment or a State of Charge Display.