

# freedom WON

## Freedom Lite HV Home and Business Range

### SUMMARY DATASHEET

Freedom Lite HV	Home 6/4	Home 12/8	Home 15/11	Home 20/14	Home 30/21	Business 40/28	Business 60/42	Business 80/56
Max Energy [kWh]	6	12	15	20	30	40	60	80
Energy, 90% DoD [kWh] (1)	5.4	10.8	13.5	18.0	27.0	36.0	54.0	72.0
Energy, 70% DoD [kWh] (1)	4.2	8.4	11	14	21	28	42	56
Current Capacity [Ah]	50	100	100	100	200	200	400	400
Max/Cont Current [A]	100/70	100/70	100/70	100/70	125/88	125/88	250/175	250/175
Max/Cont Power [kW]	11/8	15/11	15/11	20/14	20/14	26/18	38/27	51/36
Nominal Voltage [V](2)	120	128	153	204	153	204	153	204
Weight [kg]	80	122	169	222	328	429	626	823
Dimensions on or against wall - Height x Width x Depth [mm]	550x450x265	916x450x265	906x600x246	1156x600x246	1656x600x246	1656x584x306	1656x854x306	1656x1130x306
Enclosure	Aluminium – powder coated white, IP54 enclosure rating, Home – wall mount, Business – floor mount							
DC Connection – Fly Leads, [no. per electrode] (3)	1 x 16mm <sup>2</sup>	1 x 16mm <sup>2</sup>	1 x 16mm <sup>2</sup>	1 x 16mm <sup>2</sup>	1 x 35mm <sup>2</sup>	1 x 35mm <sup>2</sup>	2 x 35mm <sup>2</sup>	2 x 35mm <sup>2</sup>
External Interfacing	CAN Bus for compatible inverters and charge controller communication and control							
Protection	Shunt Trip Circuit Breaker sized to suit max current, can be tripped by BMS if critical fault incl. overcurrent, cell under and over voltage, temperature, weak cell detection, minimum SOC control, manual reset							
Human Interface	State of Charge Display (0 to 100%), Error light, Error Reset Button, Serial RS232 Plug for Programming							
Service Life [4]	10 year (or 3500 cycles) warranty for 70% average DoD, 13-15 yrs (5 500 cycles) expected life at 70% DoD, 15-20 years at 50% DoD (7 000 cycles)							

- 1) DoD = Depth of Discharge, recommended average daily 70% DoD for extended life, 50% average DoD for optimal life. Max allowable DoD is 90%.
- 2) Voltage suitable for inverters with 100V to 250V battery input voltage range i.e. Ingeteam Ingecon Sun Storage 1Play
- 3) Fly Leads 1,6m long, power cable Red = Positive, Black = Negative, conductors in table refer to one electrode i.e. per positive and negative connections. Longer cables available on request.
- 4) End of Life (EoL) defined as cell dropping to 60% of Beginning of Life (BoL) capacity for expected life and as 70% of BoL capacity for warranty.