



**SPECIFICATION SHEET**  
**FREEDOM LITE HV HOME**  
**AND BUSINESS RANGE**

**LiTE HV Home and Business Range**



Lithium Power made in South Africa

**freedom**  
**WON**

Plug Into The Current Future

Freedom LITE	Home 15/12 HV	Home 20/16 HV	Home 30/24 HV	Business 40/32 HV	Business 60/48 HV	Business 80/64 HV
Max Energy [kWh]	15	20	30	40	60	80
Energy, 90% DoD [kWh] <sup>(1)</sup>	13.5	18	27	36	54	72
Energy, 80% DoD [kWh] <sup>(1)</sup>	12	16	24	32	48	64
Nominal Voltage [V] <sup>(2)</sup>	153	204	307	410	614	410
Max/Min Operating Voltage [V]	170/137	227/182	341/273	454/365	682/547	454/365
Max/Cont Discharge Current [A]	150/80	150/80	150/100	150/100	150/100	250/200
Max/Cont Discharge Power [kW]	20/12	30/16	46/30	61/40	92/60	102/80
Max and Cont Charge Current [A]	100	100	100	100	100	200
Weight [kg]	130	173	254	327	485	637
Dimensions on or against wall excluding protuberances such as glands and breaker handle - Height x Width x Depth [mm]	745x 490x290	745x 640x290	1260x 490x290	1260x 640x290	1350x 940x290	1451x 668x566
DC Connection – Fly Leads, [no. per electrode] <sup>(3)</sup>	1 x 16mm <sup>2</sup>	1 x 16mm <sup>2</sup>	1 x 25mm <sup>2</sup>	1 x 25mm <sup>2</sup>	1 x 25mm <sup>2</sup>	1 x 50mm <sup>2</sup>
External Interfacing	CAN Bus					
Enclosure	Aluminium – powder coated white, IP54 enclosure rating, Home – wall or floor mount, Business – floor mount					
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, USB Plug for Programming					
Service Life <sup>(4)</sup>	10 year (or 4000 cycles) warranty for 80% average DoD, 13-15 yrs (>5 500 cycles) expected life at 70% DoD, 15-20 years at 50% DoD (>7 000 cycles)					

**NOTES TO SPECIFICATION SHEET:**

- 1) DoD = Depth of Discharge, recommended up to average daily 80% DoD for extended life, 50% average DoD for ultra-long life. Max allowable DoD is 90%.
- 2) Voltage suitable for various high DC voltage inverters. Please enquire with Freedom Won for pairing support.
- 3) Fly Leads 1,8m long (15/12; 20/16; 30/24 HV). Fly Leads 4m long (40/32; 60/48; 80/64 HV). 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. Multiples of 6mm<sup>2</sup> DC cables available on request for inverters fitted with MC4 type connectors for the battery input.
- 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.

**PLUG INTO THE CURRENT FUTURE**

