freedom WON

PLUG INTO THE CURRENT FUTURE

Li^{TE} Home and Business 52V Range

Li^{TE} Business 40/32

Total Energy Capacity [kWh]	40
Energy, 80% DoD [kWh] [1]	32
Energy, 90% DoD [kWh]	36
Current Capacity [Ah]	800
Max & Cont. Charge Current [A] [2]	600
Max & Cont. Charge Power [kW] [2]	30
Max/Cont. Discharge Current [A] [2]	750/600
Max/Cont. Discharge Power [kW] [2]	38/30
Max Recommended Inverter Total Rated Power (cont.) [kVA]	25
Nominal Voltage [V]	52V, to suit 48V Inverters, min 47V, max 56V
Weight [kg]	326
Dimensions on or against wall excluding protuberances such as glands and breaker handle -Height x Width x Depth [mm]	1300x522x370
Enclosure	Aluminium — powder coated white front, rated for indoor use
DC Connection – Integrated Cables [no. per electrode] [3]	2 x 95mm²
Control Interface	RJ45 Socket x 2 – CAN Bus for Interfacing with Compatible Inverters and System Controllers, and communication for the connection of parallel batteries – note that parallel batteries must all be of the same model.
Protection	Shunt Trip Circuit Breaker sized to suit max current, can be tripped by BMS if critical fault, manual reset. Includes overcurrent, cell under and over voltage, temperature, weak cell detection, minimum SOC control.
Human Interface	State of Charge Display (0 to 100%), Error light, Error Reset Button, USB Plug for Programming, Wifi remote monitoring (optional accessory).
Warranty [4]	10 years or 4 000 cycles for average 80% DoD, and max 90% DoD
Service Life [4]	>16 years (>5 500 cycles) expected life at 80% DoD [1], >20 years (>7 500 cycles) at 50% DoD
Essential Accessories	Note that for connecting the battery to a PC a USB "printer" cable is required (one is supplied with each battery) CAN Bus Termination Resistor – one required per battery (one included with battery) CAN Bus Cable (RJ45 LAN Cable)-one required per battery (not supplied with battery). Note some inverters will require a special (non-standard pin configuration) cable – see installation manual.

Notes to Specification Sheet

1. DoD = Depth of Discharge, recommended 80% DoD for average daily discharge, 70% DoD on average for optimal life – max for normal operation 90% DoD, max for system in standby 100% DoD.
2. Max load duration - 30 seconds per 40 second cycle. 1.5 x Max overload can be handled for 5 seconds.
3. Fly Leads 1,8m long, power cable Red = Positive, Black = Negative, conductors in table refer to one electrode i.e. per positive and negative connections.
4. End of Life (EoL) defined as cell dropping to 60% of Beginning of Life (BoL) capacity for expected life and 70% of BoL capacity for warranty. This warranty applies to Lites sold after 1 September 2019. For Lites sold prior please contact Freedom Won for warranty information.