freedom WON

LiTE Business 80/64 HV

Total Energy Capacity [kWh]	80
Energy, 80% DoD [kWh] [1]	64
Energy, 90% DoD [kWh] [1]	72
Max/Cont. Discharge Current [A] [2]	250/200
Max/Cont. Discharge Power [kW] [2]	102/80
Max & Cont. Charge Current [A]	200
Nominal Voltage [V] [3]	410
Max/Min. Operating Voltage [V]	454/365
Short Circuit Current [kA]	5
Battery Dimensions - H x W x D [mm] [4]	1451x751x566
Crated Dimensions - H x W x D [mm]	1600x896x760
Battery Weight [kg]	637
Crated Weight [kg]	692
DC Connection – Fly Leads (no. per electrode) [mm^2] [5]	1 x 70mm^2 Permopower
Enclosure	Aluminium enclosure painted white, for use indoors or fully protected under-cover environments, rated to IP20
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
Control Interface	CAN Bus for diagnostics & troubleshooting. RJ45 Strictly for BMS & inverter communication
Human Interface	State of Charge display (0 to 100%), Error light, Error Reset button, USB plug for programming.
Warranty [6]	Standard Warranty: 10 years (or 6000 cycles) 80% DoD, 0.5C Max Discharge, 0.25C Max Charge, Max 25°C
Service Life [6]	10 year (or 6000 cycles) warranty for 80% average DoD, 13-15 yrs (>6000 cycles) expected life at 70% DoD, 15-20 years at 50% DoD (>7000 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. Max current duration 5min every 10min. 1.5 x Max overload can be handled for 5 seconds. Current limits rated for 10°C to 25°C battery temperature. Derating will apply outside this temperature range.
3. Voltage suitable for various high DC voltage inverters. Please enquire with Freedom Won for pairing support.
4. Dimensions on or against wall excluding protuberances such as glands and breaker handle.
5. 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 6mm2 DC cables available on request for inverters fitted with MC4 type connectors for the battery input.
6. 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 LiTE units sold after 1 September 2019. For LiTE units sold prior please contact Freedom Won for warranty information.

DISTRIBUTORS AND RESELLERS

Contact your nearest Accredited Freedom Won Distributor or Accredited EPCs for further sales and technical support.

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