



Home 30/24 HV

Total Energy Capacity [kWh]	30
Energy, 80% DoD [kWh] ¹	24
Energy, 90% DoD [kWh] ¹	27
Max/Cont. Discharge Current [A] ²	120/100
Max/Cont. Discharge Power [kW] ²	37/31
Max & Cont. Charge Current [A]	100
Nominal Voltage [V] ³	307
Max/Min. Operating Voltage	336/273
Short Circuit Current [kA]	5
Battery Dimensions - H x W x D [mm] ⁴	1260x490x290
Battery Weight [kg]	254
DC Connection Power Cables (no. per electrode) [mm ²] ⁵	1 x 25mm ² Helukabel NSGAF öU (Detachable power connector)
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	RJ45 Ethernet connection for diagnostics & troubleshooting through eConnect. RJ45 CAN Strictly for BMS & inverter communication
Human Interface	State of Charge display (0 to 100%), error light, error reset button, RJ45 plug for programming
Remote Monitoring	Real time data logging and remote monitoring over Ethernet. Internet connection required
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	>16 years (>6000 cycles) expected life at 80% DoD ¹
Battery Standards	Designed and built according to IEC62619, IEC62040, IEC61000, UN38.3

Notes to Specification Sheet

- DoD = Depth of Discharge, recommended 80% DoD for average daily discharge, max for normal operation 90% DoD, max for system in standby 100% DoD.
- 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.
- Voltage suitable for various high DC voltage inverters. Please enquire with Freedom Won for pairing support.
- Dimensions excluding protuberances such as glands and breaker handle.
- Battery power connection cables 1.8m long (15/12; 20/16; 30/24 HV). Cables 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.
- End of Life (EoL) defined as cell dropping to 60% of Beginning of Life (BoL) capacity. This warranty applies to LiTE units sold after 1 April 2024. 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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