



## Home 20/16 (52V)

Total Energy Capacity [kWh]	20
Energy, 80% DoD [kWh] <sup>1</sup>	16
Energy, 90% DoD [kWh] <sup>1</sup>	18
Current Capacity [Ah]	400
Max & Cont. Charge Current [A]	350
Max & Cont. Charge Power [kW]	18
Max/Cont. Discharge Current [A] <sup>2</sup>	420/350
Max/Cont. Discharge Power [kW] <sup>2</sup>	22/18
Nominal Voltage [V]	51.2V, to suit 48V Inverters, min 47V, max 56V
Max Recommended Inverter Total Rated Power (cont.) [kVA]	15
Short Circuit Current [kA]	12
Battery Dimensions - H x W x D [mm] <sup>3</sup>	745x640x290
Crated Dimensions - H x W x D [mm]	848x805x509
Battery Weight [kg]	173
Crated Weight [kg]	206
DC Connection Power Cables (no. per electrode) [mm <sup>2</sup> ] (Detachable power connector) <sup>4</sup>	1x95mm <sup>2</sup> Helukabel NSGAF öU
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, manual reset. Includes overcurrent, cell under and over voltage, temperature, weak cell detection, minimum SoC control
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 Wifi and Ethernet. Internet connection required
Warranty <sup>5</sup>	Standard Warranty: 10 years (or 6000 cycles) 80% DoD, 0.5C Max Discharge, 0.25C Max Charge, Max 25°C
Service Life <sup>5</sup>	>16 years (>6000 cycles) expected life at 80% DoD <sup>1</sup>
Battery Standards	Designed and built according to IEC62619, IEC62040, IEC61000, UN38.3
Essential Accessories	Note that for connecting the battery to a PC an Ethernet cable is required. 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, max for normal operation 90% DoD, max for system in standby 100% DoD.
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. Dimensions excluding protuberances such as glands and breaker handle.
4. Battery power connection cables 1.8m long, power cable Red = Positive, Black = Negative, conductors in table refer to one electrode i.e. per positive and negative connections.
5. 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.

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

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