

LITE HOME RANGE - B

Range Overview Specification Sheet



Home 10/8



Home 15/12



Home 20/16

Total Energy Capacity [kWh]	10	15	20
Energy, 80% DoD [kWh] ¹	8	12	16
Energy, 90% DoD [kWh] ¹	9	13.5	18
Current Capacity [Ah]	200	300	400
Max & Cont. Charge Current [A]	200	300	400
Max & Cont. Charge Power [kW]	10	15	20
Max/Cont. Discharge Current [A] ²	300/200	480/300	480/400
Max/Cont. Discharge Power [kW] ²	15/10	24/15	24/20
Nominal Voltage [V]	52V, to suit 48V Inverters, min 47V, max 56V		
Max Recommended Inverter Total Rated Power (cont.) [kVA]	10	15	15
Short Circuit Current [kA]	8	10	12
Battery Dimensions - H x W x D [mm] ³	733x365x311	731x420x367	732x534x365
Crated Dimensions - H x W x D [mm]	840x480x585	836x588x581	836x698x588
Battery Weight [kg]	92	134	179
Crated Weight [kg]	114	159	200
DC Connection - Fly Leads (no. per electrode) [mm ²] ⁴	1x50mm ² Permopower	2x50mm ² Permopower	2x50mm 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, manual reset. Includes overcurrent, cell under and over voltage, temperature, weak cell detection, minimum SoC control		
Control Interface	USB Serial protocol for troubleshooting & RJ45 for BMS & inverter communication		
Human Interface	State of Charge display (0 to 100%), error light, error reset button, USB plug for programming		
Warranty ⁵	Standard Warranty: 10 years (or 6000 cycles) 80% DoD, 0.5C Max Discharge, 0.25C Max Charge, Max 25°C		
Service Life ⁵	>16 years (>5500 cycles) expected life at 80% DoD ¹		>20 years (>7500 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 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 on or against wall excluding protuberances such as glands and breaker handle.
4. 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.
5. 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.

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