



LiTE Home and Business 52V Range

## LiTE Home 30/24 52V

Total Energy Capacity [kWh]	30
Energy, 80% DoD [kWh] <sup>1</sup>	24
Energy, 90% DoD [kWh] <sup>1</sup>	27
Current Capacity [Ah]	600
Max & Continuous Charge Current Limit [A] <sup>2</sup>	600
Max & Continuous Charge Power Limit [kW] <sup>2</sup>	30
Max/Continuous Discharge Current Limit [A] <sup>2</sup>	750/600
Max/Continuous Discharge Power Limit [kW] <sup>2</sup>	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]	254
Dimensions on or against wall excluding protuberances such as glands and breaker handle -Height x Width x Depth [mm]	1300x413x370
Enclosure and Environmental Conditions	Aluminium enclosure painted white, for use indoors or fully protected under-cover environments, rated to IP20
DC Connection - Integrated Cables [no. per electrode] <sup>3</sup>	2 x 95mm <sup>2</sup> (Note: For Australian market external DC isolator required on + and -)
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.
Battery Chemistry	Lithium Iron Phosphate (LiFePO <sub>4</sub> )
Cell Form Factor	Large Format heavy-duty prismatic cells of 100Ah each and 3,2V nominal voltage
Battery Cooling	Natural Convection (heat generation is negligible inside the battery)
Suitable Ambient Temp [°C] <sup>5</sup>	0°C to 35°C
Extreme Operating Temp [°C]	-20°C to +60°C
Human Interface	State of Charge Display (0 to 100%), Error light, Error Reset Button, USB Plug for Programming.
Warranty <sup>4</sup>	10 years or 4 000 cycles for average 80% DoD, and max 90% DoD (Refer to product warranty for more details)
Service Life <sup>4</sup>	>16 years (>5 500 cycles) expected life at 70% DoD <sup>1</sup> , >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.
Authentication and Certification	UN38.3 / Clean Energy Council of Australia/IEC62619

### 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 60 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%
- 5 Charging below 0°C not permitted. Extended time above 35°C not recommended for optimal battery life.