

Li<sup>™</sup> Commercial HV Range

## Li<sup>TE</sup> Commercial 600/480 HV

<pre>jy, 80% DoD[kWh] 480 jy, 90% DoD[kWh] 540</pre>	
ıv. 90% DoD[kWh] 540	
,,,,	
nt Capacity [Ah] 1200	0
Cont. Charge and Discharge Current [A] 1 800	
Cont. Charge and Discharge Power [kW] 400	
nal Voltage [V] 512	
Min Operating Voltage [V] 568/	/456
nverter Cap. [kVA] 400	
Weight [kg] 5 290	0
it[mm] 1400	0
n[mm] 730	
th[mm] <sup>5</sup> 446	0
bles, [no. per electrode] [mm²]² 1×185	5
d Trip Efficiency 96-9	97%
sure 3mm	n thick Aluminium, powder coated, tamper proof, indoor use
nal Interface CAN	l Bus
pard Management Full I	battery management system and internal trip protection
	and Off Buttons, State of Charge Display (0 to 100%), Error light, Error Reset Button, USB Plug Programming and data access with PC, main breaker
rese	nt Trip Circuit Breaker sized to suit max current, can be tripped by BMS if critical fault, manual et. Protection for overcurrent, cell under and over voltage, temperature, weak cell detection other critical events
ry Chemistry Lithi	ium Iron Phosphate (LiFePO <sub>4</sub> )
orm Factor Larg alum	ge Format heavy-duty prismatic cells of 200Ah each and 3,2V nominal voltage, fully sealed in ninium casing with laser welded electrode connections
ry Cooling Fan	cooled
ble Ambient Temp [°C] 0°C1	to +35°C
me Operating Temp [°C] 4 -20°	°C to +60°C
anty <sup>5</sup> 10 ye	ears or 4 000 cycles for average 80% DoD, and max 90% DoD
ce life – Cycles >16 y	years (>5500 cycles) expected life at 70% DoD per cycle, >20 years (>7500 cycles) at 50% DoD

## Notes to Specification Sheet

The Li<sup>TE</sup> Commercial high voltage range is available in two variants, namely the HV and HV+. The HV models are suitable for the ATESS <u>HPS</u> range of hybrid battery inverters and the HV+ is suitable for the PCS range of battery inverters and associated PBD DC charge controllers. The 230/184HV+ model is suitable for both the HPS and PCS ranges. Note that integration with other inverter brands is feasible - please contact Freedom Won for assistance. If either HV or HV+ is not shown in the table under the model name it means it  $is \, not \, available \, for \, the \, respective \, size \, battery. \, You \, will \, need \, to \, select \, the \, closest \, size \, option \, that \, is \, available.$ 

- The maximum (peak) and continuous current and power ratings are the same for the Li<sup>TE</sup> Commercial HV and HV+ battery range. The maximum values given apply to both  $charge \ and \ discharge. For systems \ requiring \ more \ than \ 400kW from \ the \ Commercial HV \ range \ and \ 630kW for \ the \ HV+range, \ two \ or \ more \ batteries \ must be in stalled in the \ range \ and \ 630kW for \ the \ HV+range \ two \ or \ more \ batteries \ must be in stalled in \ the \ range \ and \ 630kW for \ the \ HV+range \ two \ or \ more \ batteries \ must be in \ stalled \ in \ the \ range \ and \ range \ and \ range \ and \ range \ range \ and \ range \$ parallel.
- Fly Leads 4.0m long as standard, power cable Red = Positive, Black = Negative, conductors in table refer to one electrode i.e. per positive and negative connections. Up to 8m long available at extra cost (must be specified in order). Note that the fly leads exit the battery on the right-hand side near the floor on all the Li<sup>TE</sup> Commercial HV and HV+  $models. \ This is to suit the bottom entry of the floor standing ATESS inverters. \ A cable trench is recommended for routing this cable along with all the other cables going to the floor standing at the floor standing$ and from the inverter (a cable tray is an alternative).
  Charging below 0°C not permitted. Extended time above 35°C not recommended for optimal battery life.
- See Freedom Won Warranty document for further detail.
- Excluding protrusions