



Freedom won lite home 5 4 lifepo4 battery

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conveniently and cost effectively over time. The eTower is designed primarily for systems that need to start with 5kWh initially with a view to growing the storage capacity over time in 5kWh increments up to 20kWh. The LiTE range is recommended for systems starting at 10kWh or larger than 20kWh.

These Freedom Won LiTE batteries are fully compatible with the Victron MultiPlus, MultiPlus-II, MultiPlus-II GX, and Quattro inverter/chargers, solar charge controllers (VE.Direct and VE.Can), and system controllers (Color Control GX, Venus GX, Octo GX, Cerbo GX, CANvu GX, Maxi GX).

The Freedom Won LiTE batteries contain an advanced battery management system (BMS) that communicates via a CAN Bus protocol with the Victron GX device. The GX device in turn connects and manages the other compatible devices in the system.

All Freedom Won LiTE models can be connected in parallel with other models of the same capacity, where one LiTE (Master) communicates with the GX device as well as all the other LiTE's in the system (Slaves).

The eTower can be paralleled up to 16 units. The recommended limit is 4 batteries in parallel because systems that require more than 20kWh are usually better accommodated by the Freedom Won LiTE range of high performance batteries. Systems that use a 250kbps CAN bus cannot be used with eTower, for example where they include the older VE.Can MPPTs (box-type).

NOTE: Certain older MultiPlus and Quattro models containing the smaller microprocessor chip (numbered 19 and 20) are not able to accept the version XXXX4XX firmware and hence are not compatible with the CAN Bus communication from the Freedom Won LiTE battery.

In all cases the latest available firmware should be installed on the Victron devices. The Freedom Won LiTE may also benefit from a firmware update if the Victron firmware is being updated on an existing installation. Contact

09; for assistance with updating firmware on your Freedom Won LiTE.

The Freedom Won LiTE models are rated for specific maximum power discharge and charge levels. It is important to refer to the applicable Freedom Won LiTE specification sheet for the maximum inverter power that may be connected to each specific LiTE model. Do not exceed the maximum kVA values provided in the specification sheet for each respective model. For multiple units in parallel, the kVA rating for every LiTE in the system may be summed to provide the total allowable inverter installed power.

Further to above, the LiTE should be sized so as to provide adequate energy capacity in kWh to meet the load demands of the system and to receive most of the excess solar generation each day (for self-consumption installations).

All of the above information can be viewed in the Freedom Won LiTE device sub menus on the GX-device. Specific setup of the GX-device and the MultiPlus/Quattro is required to ensure the required control is implemented.

If the CAN bus cable is removed or damaged the Victron inverters will shut down within 5 minutes. This prevents continued operation in the absence of communication from the battery. Likewise, the MPPT's will stop producing power to the DC bus.

The inrush current when switching on the battery breaker onto the DC bus is huge. This can cause damage to the breaker over time. So it is a Freedom Won requirement that the DC bus is pre-charged before switching on the battery. This is achieved by switching on the AC input to the inverters - the inverters will use the AC power to pre-charge their capacitors. This will eliminate the huge inrush current. The MPPTs can also be used for pre-charging by switching on the solar panels supply to the MPPTs.

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