Victron & Freedom Won LiFePO4 batteries - Freedom Lite

Introduction

Freedom Won (www.freedomwon.co.za) produces two ranges of LiFePO4 batteries for 48V systems:

- Freedom Lite Home and Business: Eight models available ranging from the smallest 5kWh model (Freedom Lite Home 5/4) up to the 80kWh model (Freedom Lite Business 80/56)
- Freedom Lite Commercial: Ten models available ranging from the 100kWh model (Freedom Lite Commercial 100/70) up to the 700kWh model (Freedom Lite Commercial 700/490).

//**Note: Refer to Freedom Won website for detailed specification sheets covering all models** //

These Freedom Lite batteries are fully compatible with the Victron Multiplus, MultiPlus II, Multiplus GX, and Quattro inverter/chargers, Solar charge controllers (Ve Direct and Ve CAN), and system controllers (Color Control GX, Venus GX, and Octo GX).

The Freedom Lite batteries contain an advanced battery management system (BMS) that communicates, using a CAN Bus protocol, with the Victron Venus device, which in turn communicates as required to the other Victron devices on the system.

All Freedom Lite models can be connected in parallel with other models of the same capacity, where one Lite (Master) communicates with the Venus device as well as all the other Lite’s in the system (Slaves). The Victron and Freedom Won integration has been extensively developed and tested and is certified and supported by both companies.

The system is suitable for all applications, namely:

- Grid Connected with solar and storage including continued operation in grid outage (ESS or self-consumption mode)
- Backup storage or UPS mode
- Off Grid plant with storage and solar

__*Figure 1 Typical Installation: Freedom Lite 60/42 with Victron 15kVA Quattro and 3x Ve Direct*



MPPT's __

Figure 2 Typical Installation: 7 x Freedom Lite Commercial 200/140 with Victron 12 x 15kVA Quattro and 10 x Ve Direct MPPT's and 6 x Fronius ECO 27kW



Wiring and settings

The staff of Freedomwon has expert knowledge of Victron products and the required settings when installing together with their batteries.

Please contact them for more information.

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