Energy storage solution using LiFePO4 cells

Battery pack options for 8 to 10 kWh energy solutions with 24V nominal

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SPECIFICATION OF THE BATTERY PACK – WB-LYP400AHA

Name: WB-LYP400AHA LiFeYPO4 (3.2V/400Ah)
Setup: 8 cells in parallel (for 24V nominal)

Product Features
1. Nominal capacity at 100% DOD: 9.6 kWh, 1500 cycles
2. Usable capacity at 80% DOD: 7.7 kWh, 2500 cycles
3. Usable capacity at 70% DOD: 6.8 kWh, 3500 cycles

Product photo

Mechanical dimensions
1. Single cell: 461 x 65 x 285 mm
2. Pack of 8 cells (in a row): 461 x 540 x 285 mm

Weight
1. Single cell: 13.7 kg
2. Pack of 8 cells: 110 kg

Product specifications
Check more details under the product code on-line:
LFP400AHA
http://www.ev-power.eu/Winston-300Ah-1000Ah/WB-LYP400AHA-LiFeYPO4-3-2V-400Ah.html
SPECIFICATION OF THE BATTERY PACK – WB-LYP260AHA

Name: WB-LYP260AHA LiFeYPO4 (3.2V/260Ah)
Setup: 16 cells 2P8S: 2 in parallel, 8 packs in series (for 24V nominal)

Product Features
1. Nominal capacity at 100% DOD: 12.4 kWh, 1500 cycles
2. Usable capacity at 80% DOD: 9.9 kWh, 2500 cycles
3. Usable capacity at 70% DOD: 8.7 kWh, 3500 cycles

Product photo

Mechanical dimensions
1. Single cell: 362 x 56 x 283 mm
2. Pack of 16 cells (in a row): 362 x 900 x 283 mm

Weight
1. Single cell: 9 kg
2. Pack of 16 cells: 144 kg

Product specifications
Check more details under the product code on-line:
LFP260AHA
http://www.ev-power.eu/Winston-40Ah-200Ah/WB-LYP260AHA-LiFeYPO4-3-2V-260Ah.html
SPECIFICATION OF THE BATTERY PACK – WB-LYP300AHA

Name: WB-LYP300AHA LiFeYPO4 (3.2V/300Ah)
Setup: 16 cells 2P8S: 2 in parallel, 8 packs in series (for 24V nominal)

Product Features
1. Nominal capacity at 100% DOD: 14.4 kWh, 1500 cycles
2. Usable capacity at 80% DOD: 11.5 kWh, 2500 cycles
3. Usable capacity at 70% DOD: 10.1 kWh, 3500 cycles

Product photo

Mechanical dimensions
1. Single cell: 363 x 56 x 306 mm
2. Pack of 16 cells (in a row): 363 x 900 x 306 mm

Weight
1. Single cell: 10 kg
2. Pack of 16 cells: 160 kg

Product specifications
Check more details under the product code on-line:
LFP300AHA
http://www.ev-power.eu/Winston-300Ah-1000Ah/WB-LYP300AHA-LiFeYPO4-3-2V-300Ah.html
The estimation of number of cycles for LiFePO4 cells.
The generic specification is at 2000 to 2500 cycles for 80% DOD (at 0.5C rate with drop to 80% of capacity).

Winston Battery LiFeYPO4 discharge characteristics

The graphs show the typical discharge characteristics for Winston Battery LiFePO4 cells at different C rates.

Additional links for support information

Winston Battery (WB) support at GWL/Power blog: http://gwl-power.tumblr.com/tagged/WinstonBattery
WB products at EV-POWER.EU: http://www.ev-power.eu/Winston-40Ah-200Ah/