

Partner details: BYD



BYD is one of the most innovative companies in the world as per Bloomberg New Energy Finance. They have achieved a vertical integrated supply production line of solar panels, electric vehicles and battery storage long before Musk had even made the offer to merge Tesla and Solarcity. Currently the company is positioned as world's largest lithium ion battery manufacturer with 12% of the global market share.



With advantages of economies of scale and extensive experience, BYD's products strives on having superior performance with competitive pricing.

Partner details: Product Details



Dynamic voltage range allows the products to interface with multiple inverter manufacturers.



LV
(Low Voltage 48V)

HV
(High Voltage 400V)

The LV products are suitable with SMA, GoodWe, Victron, SolaX inverters

The HV products are suitable with SMA inverters



B-Box Pro 2.5-10.0



B-Box Pro 13.8



B-Box Res 2.5-10.0



B-Box H 6.4-11.5



Partner details: Unique Selling Points (USPs)



BYD Business:

- Largest lithium battery manufacturer globally (Figure 9). BYD 12% compared to LG Chem 8%.
- Largest rechargeable battery manufacturer globally (Figure 10). BYD 23% compared to LG Chem 17% and Tesla 2%.
- By 2017 BYD will have 24GWh of capacity at their factory, dwarfing the completion.
- BYD is the world's largest Electric Vehicle (EV) manufacturer. Produces more cars than Tesla each year.



BYD Products General:

- Safe chemistry Li-FePO₄ which has a thermal runaway temperature of over 480 Co.
- Extremely high charge and discharge rate of 1hr. Higher than LG Chem, Tesla and Sonnen.
- Modular designs mean the B-Box can be expanded in the future to meet future demand.
- Natural cooling to improve battery efficiency.

BYD LV Products:

- Highly competitive price in terms of life-cycle costs. The overall cost is less than LG and Delta at around 21c/kWh for a 5kWh battery.
- Scalable at low storage capacities, i.e. can be scaled in increments of 1.28kWh modules.
- Scalable for larger applications, up to 80kWh.
- Highly suited to off-grid applications due to high rates of discharge and high peak power.
- Designed to support 3-phase off-grid and back up functions.

BYD HV Products

- Scalable, up to 50kWh.
- AC coupled with SMA Sunny Storage which means it can be used for on-grid retrofit and new applications.