

## Lithium Phosphate (LiFePO4) Battery

ES25.6-200 LP  
25.6-200Ah



### Features:

**Longer Cycle Life:** Offers up to 15 times longer cycle life and 5 times longer float/calendar life than lead acid battery.

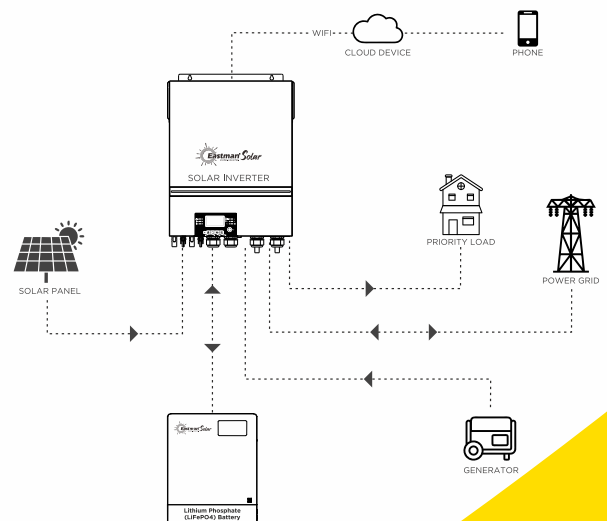
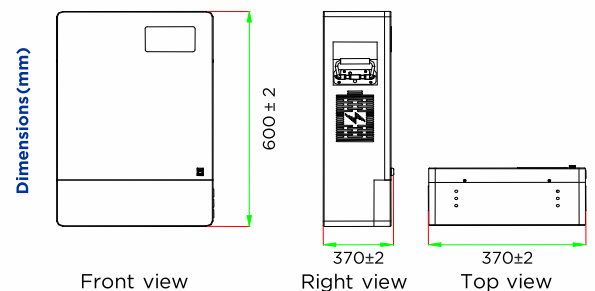
**Lighter Weight:** About 40% weight of a comparable lead acid battery, save up to 60% in weight.

**Quick Charge:** Short charge time compared with lead acid battery.

**Low Self-Discharge:** Lower self-discharge compared with lead acid battery, longer storage time without recharging.

**Superior Safety:** Multi-protection methods built inside to protect the battery from overcharge, over discharge and short circuit situation

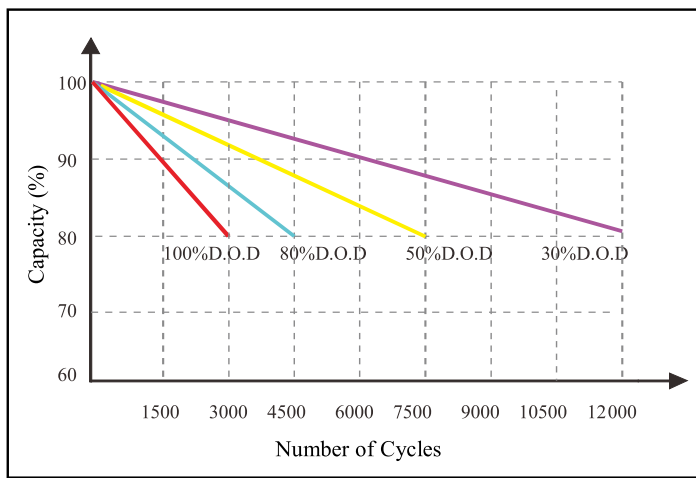
**High Efficient:** Higher round-trip energy efficiency of the average (92%) than lead acid battery 80% (discharge from 100% to 0% and back to 100% charged).



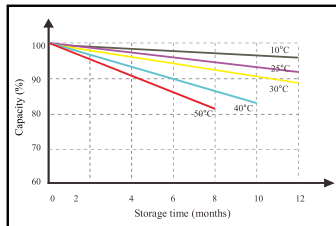
## Specifications

|                  |              |                         |
|------------------|--------------|-------------------------|
| Nominal voltage  |              | 24V                     |
| Nominal capacity |              | 200Ah                   |
| Dimensions       | Length       | 372±2mm (14.65inch)     |
|                  | Width        | 166±2mm (6.54inch)      |
|                  | Height       | 600±2mm (23.62inch)     |
|                  | Total height | 600±2mm (23.62inch)     |
| Approx. weight   |              | 42.2kg (93.03lbs)±2.5kg |

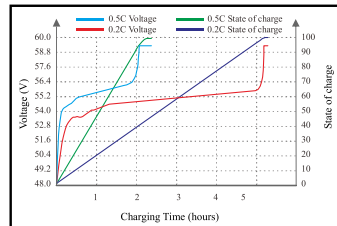
## Cycle life on D.O.D (25°C)



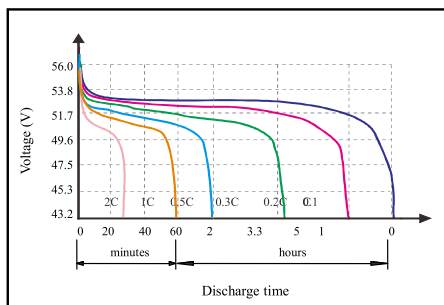
## Self Discharge Characteristics Curve



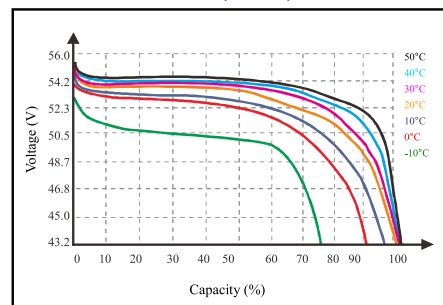
## State of Charge Curve (250C)



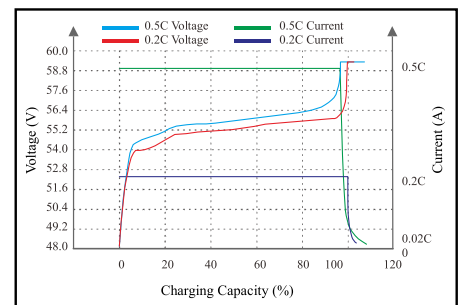
## Discharge characteristics (25°C)



## Temperature affect on discharge characteristics (0.5C)



## Charge characteristics (25°C)



## Characteristics

|   |                                  |   |
|---|----------------------------------|---|
| Electrical Parameters (25°C)              | Rated Voltage                    | 25.6V   |
|   | Rated Capacity (C <sub>s</sub> ) | 200Ah@25°C  |
|   | Energy                           | 5120Wh  |
|   | Months Self Discharge            | <3%   |
|   | Charge Efficiency                | 99.5%@ 0.2C   |
|   | Discharge Efficiency             | 96-99%@ 1C  |
| Terminal Diameter                         |                                  | M8  |
| Internal resistance (Fully charged, 25°C) |                                  | ≤10mΩ   |
| Cycle life                                |                                  | >3000 cycles @ 0.2C 100%D.O.D   |
| Capacity affected by temperature          | 40°C                             | 101%  |
|   | 25°C                             | 100%  |
|   | 0°C                              | 90%   |
|   | -10°C                            | 75%   |
| Nominal operating temperature             |                                  | 25°C± 3°C (77°F± 5°F)   |
| Operating temperature range               | Discharge                        | - 20°C~ 60°C (-4°F ~ 140°F)   |
|   | Charge                           | 0°C~ 45°C (32°F ~ 113°F)  |
|   | Storage                          | 0°C~ 40°C (32°F ~ 104°F)  |
| Water Dust Resistance                     |                                  | IP50  |
| Charge Voltage                            |                                  | 28V   |
| Standard Charge Mode (25°C±2°C, <75%RH)   |                                  | 0.2CA Constant Current to 57V, then Constant Voltage 57V until the current drops to 0.02CA, before use, rest 30 minutes |
| Charge Current                            |                                  | 40A   |
| Maximum Charge Current                    |                                  | 100A  |
| Charge Cut off Voltage                    |                                  | 28V   |
| Continuous Discharge Current              |                                  | 100A  |
| Maximum Pulse Current                     |                                  | 150A (<100ms)   |
| Discharge Cut Off Voltage                 |                                  | 24V   |
| Communicate Protocol (optional)           |                                  | RS485/CAN   |
| SOC (optional)                            |                                  | LED/Screen/PC Software  |
| Application connection                    |                                  | 1 string 1 parallel   |
| Mechanical                                | Cells                            | 8 Strings   |
|   | Container                        | Metal   |

Product specification are subject to change without prior notice.