

12V 212Ah



## Model Included:

- PS-2500 12V 212Ah LiFePO4 Battery

| POWERSTATION<br>OFF-GRID SOLAR MADE IN NZ |                     | PS-2500  |
|---|---------------------|--|
| Electrical Specifications                 | Nominal Voltage     | 12.8V  |
|   | Nominal Capacity    | 212Ah  |
|   | Parallel Connection | Max. 4units  |
|   | Serial Connection   | Max. 4units  |
|   | BMS                 | 4S150A   |
|   | Bluetooth           | No   |
|   | Circuit Protection  | Over charge, Over discharge, Over current, Over temp, Short, Balance |
|   | Cycle Life          | 3000times Cycles @100%DOD and 6000times @80% DOD                     |
|   | Self Discharge      | Less than 3% per month   |
|   | Charge Efficiency   | 100% @0.2C   |
| Discharge Efficiency                      | 98-100% @1C         |  |
| Charge Specifications                     | Charge Voltage      | 14.4±0.2V  |
|   | Standard Current    | 42A  |
|   | Fast Current        | 106A   |
| Discharge Specifications                  | Standard Current    | 42A  |
|   | Max. Con. Current   | 150A   |
|   | Peak Current        | 600A(300ms)  |
|   | Cut-off Voltage     | 10V  |
| Mechanical Specifications                 | Dimensions (mm)     | 490×171×240mm  |
|   | Approx Weight(KG)   | 18.5   |
|   | Terminal Type       | M8   |
|   | Case Color/material | Black Plastic case (ABS)   |
|   | IP Rating           | IP65   |
|   | Cell Type           | 3.2V106Ah prismatic cell   |
|   | Cell holder         | Yes  |
| Temperature Specifications                | Charge Temp         | 0°C to 55°C (32°F to 131°F)  |
|   | Discharge Temp      | -20°C to 60°C (-4°F to 140°F)  |
|   | Storage Temp        | -5°C to 45°C (23°F to 113°F)   |

## Key Points for Quality control:

- Cell match:**  
 Much stricter than most suppliers, the strict cell matching standards ensure the consistency of the cells and thus the high consistency of the battery pack.
- Automatic cells welding:**  
 Cells are assembled by Automatic welding equipments to ensure the quality reliability and consistency.
- 100% Cycle test:**  
 All battery packs are 100% cycle tested (Fully Discharged → Fully Charged → Fully Discharged → 60% Charged) before package and all test reports are stored.
- Unique tracking number:**  
 All battery packs are lasered an unique number on the case side for quality tracking.

## Certifications:

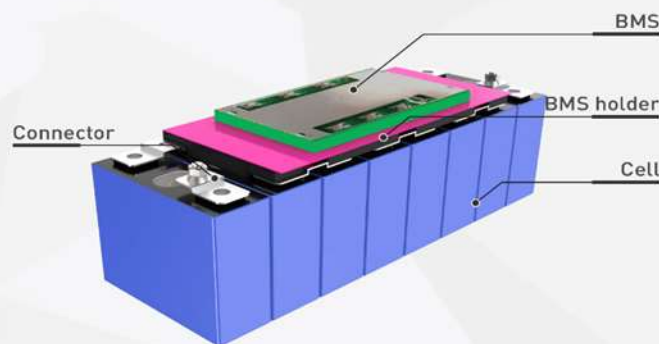
- UL1973 (Cell)
- UL9540 (Cell)
- IEC62133 (Cell)
- IEC62919 (Cell)
- CE (Pack)
- UN38.3 (Cell / Pack)
- ROHS (Cell)



## Dimensions:



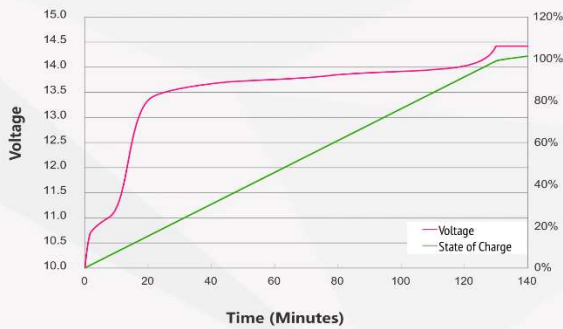
## Internal Structure:



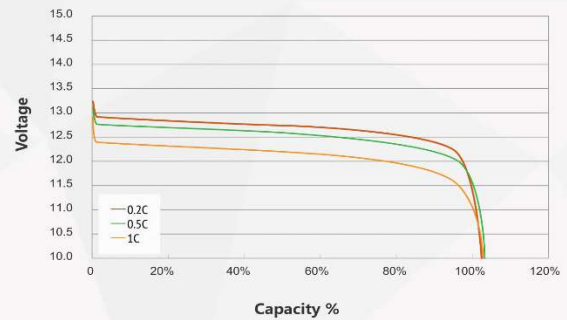
HCG49-12212

## Characteristics Curve:

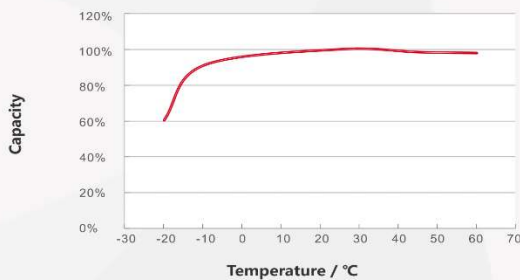
Charging Characteristics (0.5C @25°C)



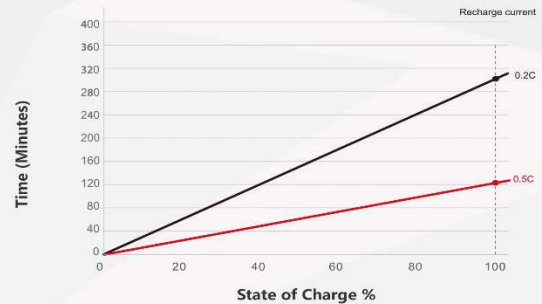
Discharging Characteristics (0.2C, 0.5C, 1C @25°C)



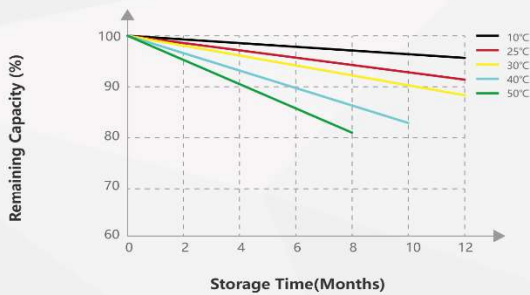
Different Temperature Capacity Curve



Typical Charge Time Curve



Different Temperature Self Discharge Curve



Different DOD Discharge Cycle Life Curve

