

# AST-7200 51.2V 142Ah LiFePO4-Li Battery

Solmax New Energy B.V.  
www.solarfam.nl  
1.2025

## Advantages of AST-7200

**-Size & weight:** AST-7200 has the size of 720mm\*195mm\*465mm. It weighs half of the capacity-equivalent lead acid battery.

**-Roller design:** reduces ground wear and tear, and the use position can be adjusted according to the environment easily.

**-Case material:** The case is made of ABS+PC fire-retardant material. The product has nice appearance, stable structure, and is convenient for standardized production.

**-PCB board:** The confluence and voltage detection pass through the PCB board, and the wiring is simple, which effectively reduces the failure rate. Each cell is connected with a fuse in series. The fuse will melt and cut off the circuit in case of a constant over-current to avoid fire risks.

**-Interface:** Quick plug-in terminal, convenient for connection.

**-Communication interface:** RS232 communication, CAN communication, RS485 communication are supported.

**-BMS protection:** Each of AST-7200 has an integrated battery management system which protects the battery from extreme cases. The following chart shows the basic protection functions of the BMS.



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## • Technical Specifications

|                     |                          |
|---------------------|--------------------------|
| Nominal voltage     | 51.2V                    |
| Nominal capacity    | 7200Wh                   |
| Cycle life          | ≥6000 cycles 80%DOD      |
| Installment         | Parallel connection only |
| Dimension           | 712mm*195mm*465mm        |
| Weight              | 63.35KG                  |
| Storage temperature | -15~65°C                 |

## • Charging parameters

|                      |  |
|----------------------|--|
| Charge voltage       | 58.4±0.2V                                |
| Charge mode          | CC/CV: Constant Current/Constant Voltage |
| Max charge current   | 120A                                     |
| Charging temperature | 0~60°C                                   |

## • Discharge parameters

|                           |                                    |
|---------------------------|------------------------------------|
| Max discharge current     | 120A                               |
| Discharge cut-off voltage | 43.2V (bulk)<br>2.7V (single bank) |
| Discharge temperature     | -15~65°C                           |

## • BMS description

|   |                                  |
|---|----------------------------------|
| Operating temperature                       | 0 ~ 60°C                         |
| Working humidity                            | 10 ~ 85%RH                       |
| Cell overcharge protection voltage          | 3700mV 1.0S                      |
| Cell overcharge protection release voltage  | 3380mV                           |
| Capacity release                            | SOC < 96%                        |
| Discharge release                           | recharging current > 1A          |
| Single over-discharge protection voltage    | 2700mV 1.0S                      |
| Charging over-current protection current    | 110A 1.0S                        |
| Charge over-current protection released     | Automatically release after 1min |
| Discharge release                           | recharging current > 1A          |
| Discharge over-current 1 alarm current      | 105A                             |
| Discharge over-current 2 protection current | ≥150A                            |
| Short circuit protection current            | ≥350A                            |
| Short circuit protection delay              | ≤300μS                           |

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