

# Voln<sup>ex</sup><sup>®</sup>

## RESIDENTIAL BATTERY

# ARMOR 5.12

## Low Voltage



Top-notch LFP Class A cell  
/ Strict capacity grading



100% tested for safety,  
readability and  
capacity



Auto aerosol fire extinguishing  
Ultimate security, strengthen  
defense



Real-time data  
monitoring and  
firmware update



Full automatic  
manufacturing  
CCS technique



Precise voltage/temperature  
/SOC detection



One button start/stop and  
parallel connection



IP65 design, more  
installation scenario

## DATASHEET

| Model                                 |                                                                      | Armor 5.12 |
|---------------------------------------|----------------------------------------------------------------------|------------|
| Performance                           |                                                                      |            |
| Cell technology                       | LFP ( LiFePO <sub>4</sub> )                                          |            |
| Battery usable energy [1]             | 5120 Wh                                                              |            |
| Cell Capacity                         | 100 Ah                                                               |            |
| Nominal voltage                       | 51.2 Vdc                                                             |            |
| Operating voltage                     | 44.8 ~ 56.16 V                                                       |            |
| Max. charge and discharge current [2] | 100 A                                                                |            |
| Communication                         |                                                                      |            |
| Display                               | SOC status indicator, LED indicator                                  |            |
| Communication                         | CAN / RS485 / RS232 / Wi-Fi                                          |            |
| General Specification                 |                                                                      |            |
| Dimension (W×D×H)                     | 470×160×635 mm                                                       |            |
|                                       | 18.5×6.3×25 inch                                                     |            |
| Weight                                | 48.8 kg (107.5 lbs)                                                  |            |
| Installation                          | Floor stand or Wall mounted                                          |            |
| Operating temperature [3]             | Charge: 0 to 50°C (32 to 122°F) Discharge: -15 to 50°C (5 to 122°F)  |            |
| Environmental humidity                | ≤ 95%RH (No condensation)                                            |            |
| Ingress protection rating             | IP65                                                                 |            |
| Cycle Life                            | 6000 Cycles @ 80%DOD / 25°C / 0.5C 60% EOL                           |            |
| Warranty Period [4]                   | 10 years warranty (5 years product + 5 years service)                |            |
| Scalability                           | Max. 15 batteries in parallel                                        |            |
| Application                           | ON Grid / ON Grid + Backup / OFF grid                                |            |
| Compatible inverters                  | Refer to compatible inverter list (Compatible with major PCS brands) |            |
| Standard Compliance                   |                                                                      |            |
| Compliance                            | UN38.3 / IEC62619 / IEC61000 (More available upon request)           |            |
| Ordering and Delivery Parts           |                                                                      |            |
|                                       | Armor 5.12 Battery                                                   |            |
|                                       | Armor 5.12 Parallel cable                                            |            |
|                                       | Armor 5.12 to PCS cable                                              |            |

Parts

[1] Test conditions: 100% depth of discharge (DOD), 0.2C rate charge & discharge at 25°C.

[2] There is 0.5C or 1C configurations optional in factory default.

[3] Charge/discharge derating occurs when the temperature is below 0°C or above 45°C.

[4] Please refer to the Warranty Letter for applicable conditions.

