

# CESS Outdoor Cabinet Energy Storage System



## PRODUCT INTRODUCTION

This integrated cabinet-type energy storage system is mainly composed of the battery, battery management system (BMS), PCS, monitoring system, fire-proof system, and temperature control system. This product is developed for being used in buildings, shopping malls, communities and the end of power distribution networks and is compatible with wall-mounted and cabinet-type PCS. With standard and unitized design, it can be flexibly configured according to actual application requirement

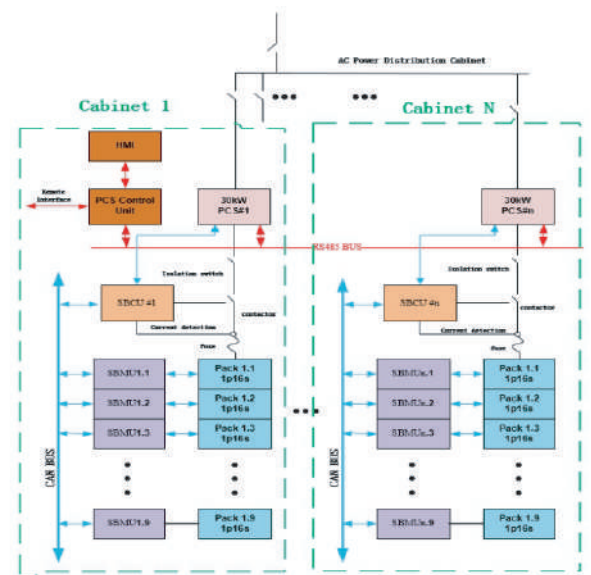
## PRODUCT FEATURES

- ◆ Highly integrated
- ◆ High reliability: adopt high safety LFP batteries, real-time cell voltage and temperature monitoring, pre-warning a mechanism, and advanced fire-extinguishing system
- ◆ Protection grade up to IP55
- ◆ Modular and standard design: easy maintenance, multi-cabinet parallel connection supported
- ◆ Certification: IEC and UN /(cell and battery pack)

## APPLICATION SCENARIOS

- ◆ Public parking lots
- ◆ Hospitals and shopping centers
- ◆ Power distribution network ends and micro grids

## CIRCUIT TOPOLOGY



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## ■ Specifications

| Item                         | Parameters          | Item                           | Parameters                         |
|------------------------------|---------------------|--------------------------------|------------------------------------|
| Product Model                | ACE-GESS-30kW/55kWh | Cell Material                  | LFP                                |
| DC Side (Battery) Parameters |                     | AC Side Parameters (Off-Grid)  |                                    |
| Nominal Capacity [KWh]       | 55                  | Rated Power [KW]               | 30                                 |
| Rated Voltage [V]            | 460.8               | Rated Voltage [V]              | 380/400/480                        |
| Voltage Range [V]            | 417.6~511.2         | Rated Frequency [Hz]           | 50/60                              |
| Max. DOD                     | ≤90%                | Frequency Range [Hz]           | 0.2                                |
| Usable Capacity [KWh]        | 50                  | Current Harmonics              | ≤3%                                |
| Pack Energy [KWh]            | 6.144               | Output Overload Capacity       | ≤105% (continuous);<br>125% (1min) |
| Number of Packs (In Series)  | 9                   | Unbalance Overload Capacity    | 100%                               |
| AC Side Parameters (On-Grid) |                     | Other Parameters               |                                    |
| Rated Power [KW]             | 30                  | AC Connection Mode             | 3P+N+PE                            |
| Rated Voltage [V]            | 380/400/480         | Cabinet Dimensions [W*D*H, mm] | 750*1200*2150                      |
| Voltage Range [V]            | -15% to +10%        | Weight [Kg]                    | ~1000                              |
| Rated Current [A]            | 45                  | Isolation Method               | Non-isolated                       |
| Rated Frequency [Hz]         | 50/60               | Cooling Mode                   | Forced cooling                     |
| Frequency Range [Hz]         | 45±3                | Protective Level               | IP54                               |
| Power Factor                 | 1                   | Noise [dB]                     | < 65                               |
| Current Harmonics            | ≤3%                 | Operating Ambient Temperature  | -20 to +50                         |
| Output Overload Capacity     | ≤105% (continuous)  | Communication Port             | Ethernet, RS485, and CAN           |
|                              |                     | Relative Humidity              | 5~95%RH (non-condensing)           |

The datasheet is subject to change without prior notification.