

ESS-112  
PV-Storage-Diesel Microgrid System



Integration of PV, energy storage, and diesel generation



Automatic switching between grid-connected and off-grid loads



100KW high-power PV input



Fast installation and deployment



Up to 4 units for parallel operation



Simple and easy to use

ESS -112 Product Introduction

| BESS Model                             | ES 112-HVLC                                |
|----------------------------------------|--------------------------------------------|
| Capacity                               | 112.5kWh-HV (16.08kWh*7)                   |
| Nominal Voltage                        | 358.4V                                     |
| Nominal Capacity                       | 314AH                                      |
| Cabinet Size (mm)                      | 900x1250x2258                              |
| Weight (kg)                            | 1200KG                                     |
| Charge/discharge power MAX             | 150A                                       |
| Cooling method                         | Air-cooled                                 |
| Protection class                       | IP54                                       |
| Type of firefighting                   | Aerosol                                    |
| Battery Module Specification           |                                            |
| Battery Types                          | 51.2V-314AH                                |
| Nominal Capacity (KWh)                 | 16.08KWh                                   |
| Recommend Charge/Discharge Current (A) | 100                                        |
| Max. Charge/Discharge Current (A)      | 150                                        |
| Communication                          | RS485/CAN                                  |
| Working Temperature                    | 0°C~50°C (Charge) ; -10°C~50°C (Discharge) |
| Transport or Storage Temperature Range | -20°C~60°C                                 |
| Certification                          | CE/IEC/UL/UN38.3/MSDS                      |
| Design Life                            | 10years+                                   |
| Cycle Life                             | (0.5C/0.5C-80% DOD )>6000 times            |
| Cooling method                         | Air-cooled                                 |
| Certification                          | UN38.3/MSDS/ROHS                           |
| Inverter                               |                                            |
| Rated Power                            | 50KW                                       |
| Overloaded                             | 110%                                       |
| Rated AC Voltage                       | 3L/N/PE Three Phase                        |
| Rated frequency                        | 50/60Hz                                    |