

# SunESS series

Sunwoda SunESS series brings storage solutions to European and American customers with safe performance and first-class quality.



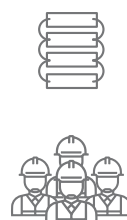
## Flexible capacity options

Stackable module design, easily extend  
5kWh per module, scalable from 5 to 60kWh



## Easy to install

Stack and play, without wire connection  
Compact and Light, 1~2 persons installation



## Excellent low temp. performance (Optional)

Operate at -10°C without any limitation and attenuation



## Battery APP

Real time monitoring  
remote maintenance and upgrades

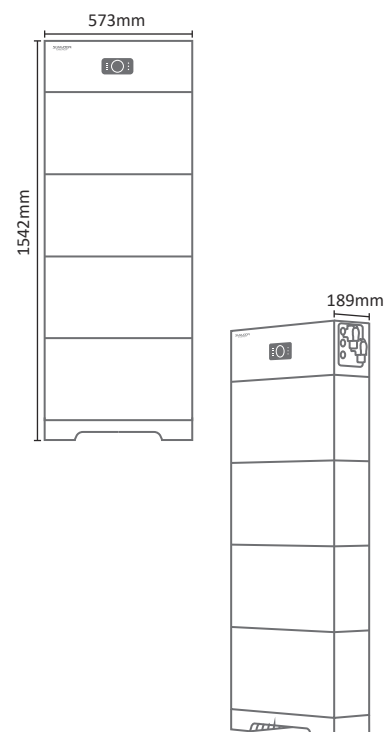


## Electrical characteristics

| Model                                  | SunESS-5                                                                                                                                                  | SunESS-10   | SunESS-15   | SunESS-20   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|
| Nominal energy (Usable energy 100%DOD) | 5kWh                                                                                                                                                      | 10kWh       | 15kWh       | 20kWh       |
| Rated voltage                          | 51.2V                                                                                                                                                     | 51.2V       | 51.2V       | 51.2V       |
| Charge/discharge cut off voltage       | 44.8V~55.2V                                                                                                                                               | 44.8V~55.2V | 44.8V~55.2V | 44.8V~55.2V |
| Roundtrip efficiency                   | >95%                                                                                                                                                      | >95%        | >95%        | >95%        |
| Rated charge/discharge current         | 50A/50A                                                                                                                                                   | 100A/100A   | 150A/150A   | 200A/200A   |
| Max. charge/discharge current          | 100A/100A                                                                                                                                                 | 180A/180A   | 200A/200A   | 200A/200A   |
| Communication interface                | CAN 2.0 / RS485                                                                                                                                           |             |             |             |
| DC disconnect                          | Circuit breaker, 250A, 48V rating                                                                                                                         |             |             |             |
| Connection method                      | Quick plug and unplug terminals                                                                                                                           |             |             |             |
| User interface                         | Display battery running status, SOC, alarm information, WIFI status, heater status, etc.                                                                  |             |             |             |
| Protection features                    | Charging overvoltage protection, discharge under-voltage protection, over current protection, over temperature protection ,short circuit protection, etc. |             |             |             |
| Scalability                            | Max. 3 in parallel, Max. 60kWh                                                                                                                            |             |             |             |

## Operating conditions

|                                     |                                 |
|-------------------------------------|---------------------------------|
| Installation location               | Outdoor or indoor               |
| Operating temperature               | 14°F to 122°F (-10°C to 50°C)   |
| Operating temperature (Recommended) | 59°F to 86°F (15°C to 30°C)     |
| Storage temperature                 | -22°F to 140°F ( -30°C to 60°C) |
| Humidity                            | 10% to 95%,non condensation     |
| Dimensions (W*H*D, mm )             | 573*(597/912/1227/1542)*189     |
| Weight                              | 65kg,115kg,165kg,215kg          |
| Enclosure rating                    | IP55                            |
| Altitude                            | <2000m                          |
| Cooling                             | Natural convection              |
| Warranty                            | 5years/10 years                 |



## Certificates

|           |                                       |
|-----------|---------------------------------------|
| Safety    | IEC62619/CE/UL1973/FCC/UL9540/UL9540A |
| Transport | UN38.3                                |