

# SPECIFICATION SHEET

## LiFePo4 BATTERY

### PRODUCT PRESENTATION



Home ESS refers to the storage of electricity locally by household energy storage equipment for later use. ESS consists of energy storage batteries, inverters and other components.

We use brand new A grade LiFePo4 battery, equipped with an intelligent battery management system for charging and discharging cycles. The inverter converts DC energy to AC energy to meet the requirements for household electricity. Normally this product is installed in combination with PV system to provide green electricity to household users, reduce energy consumption, and reduce negative impacts on the environment, it's widely used in remote areas or areas with unstable power supply, to provide reliable, stable, and cost-effective energy supply.



1

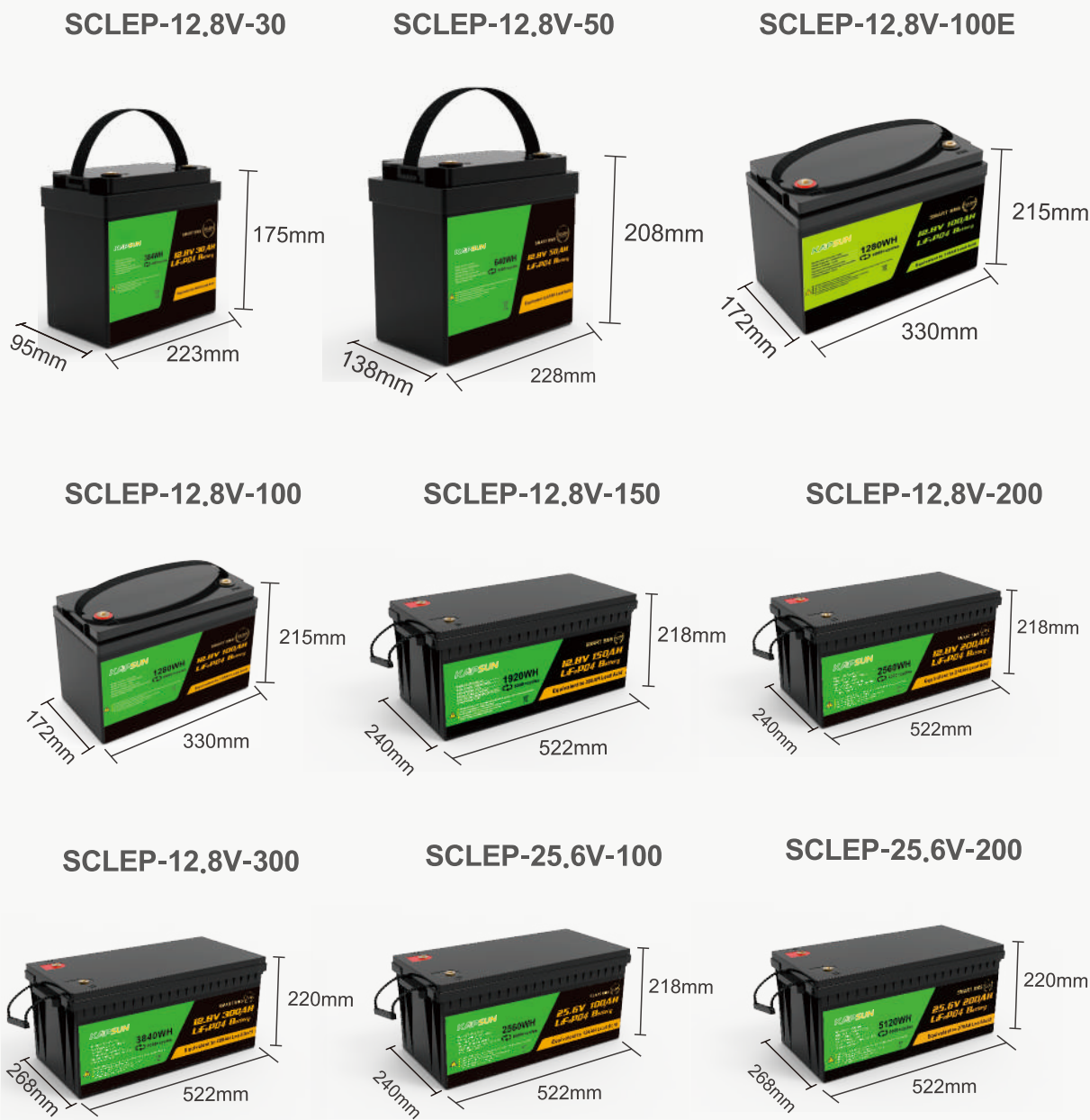
## WORKING DIAGRAM

2

### PRODUCT FEATURES

- Superior safety and longer cycle life
- Higher energy density and Lighter weight
- Super quick charge and low self-discharge

### PRODUCT DIMENSION



OPERATION FUNCTION

3

| Model                                | SCLFP-12.8V-30  | SCLFP-12.8V-50   | SCLFP-12.8V-100E | SCLFP-12.8V-100 | SCLFP-12.8V-150 |
|--------------------------------------|-----------------|------------------|------------------|-----------------|-----------------|
| Nominal Voltage                      | 12.8V           | 12.8V            | 12.8V            | 12.8V           | 12.8V           |
| Rated Capacity                       | 384Wh (30Ah)    | 640Wh (50Ah)     | 1280Wh (100Ah)   | 1280Wh (100Ah)  | 1920Wh (150Ah)  |
| Cell Combination Structure           | 4S2P            | 4S1P             | 4S4P             | 4S1P            | 4S1P            |
| Discharge Current                    | 30A             | 50A              | 80A              | 100A            | 100A            |
| Battery Type                         | LiFePO4         | LiFePO4          | LiFePO4          | LiFePO4         | LiFePO4         |
| Discharge End Voltage                | 10V             | 10V              | 10V              | 10V             | 10V             |
| Standard Charge Voltage              | 14.6V           | 14.6V            | 14.6V            | 14.6V           | 14.6V           |
| Float Voltage                        | 13.8V           | 13.8V            | 13.8V            | 13.8V           | 13.8V           |
| Standard Charge Current              | 15A             | 25A              | 40A              | 50A             | 50A             |
| Maximum Continuous Charge Current    | 30A             | 50A              | 80A              | 100A            | 100A            |
| Standard Discharge Current           | 15A             | 25A              | 40A              | 50A             | 50A             |
| Maximum Continuous Discharge Current | 30A             | 50A              | 80A              | 100A            | 100A            |
| Peak Current                         | 33A, 10Sec      | 55A, 10Sec       | 110A, 10Sec      | 110A, 10Sec     | 110A, 10Sec     |
| Charge Operating Temperature         | 0℃ -50℃         | 0℃ -50℃          | 0℃ -50℃          | 0℃ -50℃         | 0℃ -50℃         |
| Discharge Operating Temperature      | -20℃~60℃        | -20℃~60℃         | -20℃~60℃         | -20℃~60℃        | -20℃~60℃        |
| Dimension                            | 22.3*9.5*17.5cm | 22.8*13.8*20.8cm | 33*17.2*21.5cm   | 33*17.2*21.5cm  | 52.2*24*21.8cm  |

| Model                                | SCLFP-12.8V-200 | SCLFP-12.8V-300 | SCLFP-25.6V-100 | SCLFP-25.6V-200 |
|--------------------------------------|-----------------|-----------------|-----------------|-----------------|
| Nominal Voltage                      | 12.8V           | 12.8V           | 25.6V           | 25.6V           |
| Rated Capacity                       | 2560Wh (200Ah)  | 3840Wh (300Ah)  | 2560Wh (100Ah)  | 5120Wh (200Ah)  |
| Cell Combination Structure           | 4S2P            | 4S1P            | 8S1P            | 8S1P            |
| Discharge Current                    | 100A            | 200A            | 100A            | 100A            |
| Battery Type                         | LiFePO4         | LiFePO4         | LiFePO4         | LiFePO4         |
| Discharge End Voltage                | 10V             | 10V             | 20V             | 20V             |
| Standard Charge Voltage              | 14.6V           | 14.6V           | 29.2V           | 29.2V           |
| Float Voltage                        | 13.8V           | 13.8V           | 27.6V           | 27.6V           |
| Standard Charge Current              | 50A             | 100A            | 50A             | 50A             |
| Maximum Continuous Charge Current    | 100A            | 200A            | 100A            | 100A            |
| Standard Discharge Current           | 50A             | 100A            | 50A             | 50A             |
| Maximum Continuous Discharge Current | 100A            | 200A            | 100A            | 100A            |
| Peak Current                         | 110A, 10Sec     | 220A, 10Sec     | 110A, 10Sec     | 110A, 10Sec     |
| Charge Operating Temperature         | 0℃ -50℃         | 0℃ -50℃         | 0℃ -50℃         | 0℃ -50℃         |
| Discharge Operating Temperature      | -20℃~60℃        | -20℃~60℃        | -20℃~60℃        | -20℃~60℃        |
| Dimension                            | 52.2*24*21.8cm  | 52.2*26.8*22cm  | 52.2*24*21.8cm  | 52.2*26.8*22cm  |

TRANSPORTATION  
PACKING DETAILS

4

| Name                        | Item No          | Components | CNT | Carton Size      | N.W (kg) | G.W (kg) | Unit CBM (m³) |
|-----------------------------|------------------|------------|-----|------------------|----------|----------|---------------|
| LiFePO4 BATTERY 12.8V-30Ah  | SCLFP-12.8V-30   | Screw Pack | 1   | 22.3*9.5*17.5CM  | 3.3      | 3.6      | 0.005         |
| LiFePO4 BATTERY 12.8V-50Ah  | SCLFP-12.8V-50   | Screw Pack | 1   | 22.3*13.8*20.8CM | 5.8      | 6.1      | 0.008         |
| LiFePO4 BATTERY 12.8V-100Ah | SCLFP-12.8V-100E | Screw Pack | 1   | 33*17.2*21.5CM   | 10.5     | 11       | 0.023         |
| LiFePO4 BATTERY 12.8V-100Ah | SCLFP-12.8V-100  | Screw Pack | 1   | 33*17.2*21.5CM   | 10.5     | 11       | 0.023         |
| LiFePO4 BATTERY 12.8V-150Ah | SCLFP-12.8V-150  | Screw Pack | 1   | 52.2*24*21.8CM   | 20       | 21       | 0.045         |
| LiFePO4 BATTERY 12.8V-200Ah | SCLFP-12.8V-200  | Screw Pack | 1   | 52.2*24*21.8CM   | 20       | 21       | 0.045         |
| LiFePO4 BATTERY 12.8V-300Ah | SCLFP-12.8V-300  | Screw Pack | 1   | 52.2*26.8*22CM   | 25       | 25.5     | 0.05          |
| LiFePO4 BATTERY 25.6V-100Ah | SCLFP-25.6V-100  | Screw Pack | 1   | 52.2*24*21.8CM   | 20       | 21       | 0.045         |
| LiFePO4 BATTERY 25.6V-200Ah | SCLFP-25.6V-200  | Screw Pack | 1   | 52.2*26.8*22CM   | 28       | 29       | 0.05          |

PACKING  
LIST



Screw Pack\*1