

# RESIDENTIAL ESS SOLUTION

## DEYE SPRING RW SERIES



### Easy Operation & Maintenance

- Battery module auto networking ( No DIP switches )
- Support remotely monitoring and upgrade the firmware via Deye inverter
- Support external power supply activation, prevents battery suspension
- Allow over-discharge direct recharge, easy to maintain.



### Safer

- ( LFP ) Battery : Safe, long-lasting, high-efficiency. Built-in circuit breaker, Intelligent BMS. Eco-friendly materials, non-toxic, pollution-free module.



### Flexible Application

- Support Max. 32 units in parallel
- Built-in 10A constant-current limit charge
- Compatible with any brand inverter charge and discharge
- Suited to provide energy for backup power, residential, etc.



### Reliable

- Built-in circuit breaker, Support 160A charge and 160A discharge
- Charge from 0°C to 55°C, discharge from -20°C to 55°C

≥6000

Cycles

32 units

Max in parallel

70%

EOL

8kW

Maximum Output Power

# Wall-Mounted Battery (LV)



| Model                                           |                 | RW-F16                                          |
|-------------------------------------------------|-----------------|-------------------------------------------------|
| <b>Main Parameter</b>                           |                 |                                                 |
| Battery Chemistry                               |                 | LiFePO <sub>4</sub>                             |
| Built-in Circuit Breaker                        |                 | 125A 2P, 60Vdc                                  |
| Capacity ( Ah ) <sup>[1]</sup>                  |                 | 314                                             |
| Scalability                                     |                 | Max. 32 pcs pack ( Max.512kWh ) in parallel     |
| Nominal Voltage ( V )                           |                 | 51.2                                            |
| Operating Voltage ( V )                         |                 | 44.8 ~ 57.6                                     |
| Nominal Energy ( kWh ) <sup>[1]</sup>           |                 | 16                                              |
| Usable Energy ( kWh@90%DOD )                    |                 | 14.4                                            |
| Charge / Discharge Current ( A ) <sup>[2]</sup> | Max. Continuous | 160 / 160                                       |
|                                                 | Peak            | 300 / 300 ( 10 sec )                            |
| <b>Other Parameter</b>                          |                 |                                                 |
| Recommend Depth of Discharge                    |                 | 90%                                             |
| Dimension ( W×H×D, mm )                         |                 | 480×830×235 ( Without hanging board and base )  |
| Weight Approximate(kg)                          |                 | 122                                             |
| Master LED Indicator                            |                 | LED ( SOC and working state )                   |
| IP Rating of Enclosure                          |                 | IP20                                            |
| Operating Temperature                           |                 | Charge : 0 ~ 55°C / Discharge : -20°C ~ 55°C    |
| Recommend Operating Temperature                 |                 | 15°C ~ 35°C                                     |
| Storage Temperature                             |                 | 0°C ~ 35°C                                      |
| Relative Humidity                               |                 | 95%                                             |
| Altitude                                        |                 | ≤2000m                                          |
| Cycle Life                                      |                 | ≥6000 ( 25°C±2°C, 0.5C / 0.5C, 90%DOD, 70%EOL ) |
| Installation                                    |                 | Wall-Mounted, Floor-Mounted                     |
| Communication Port                              |                 | CAN2.0, RS485                                   |
| Warranty Period <sup>[3]</sup>                  |                 | 5 years                                         |
| Energy Throughput <sup>[3]</sup>                |                 | 52.5MWh ( 25°C, 0.5C / 0.5C, 70%EOL )           |
| Certification                                   |                 | UN38.3, MSDS                                    |

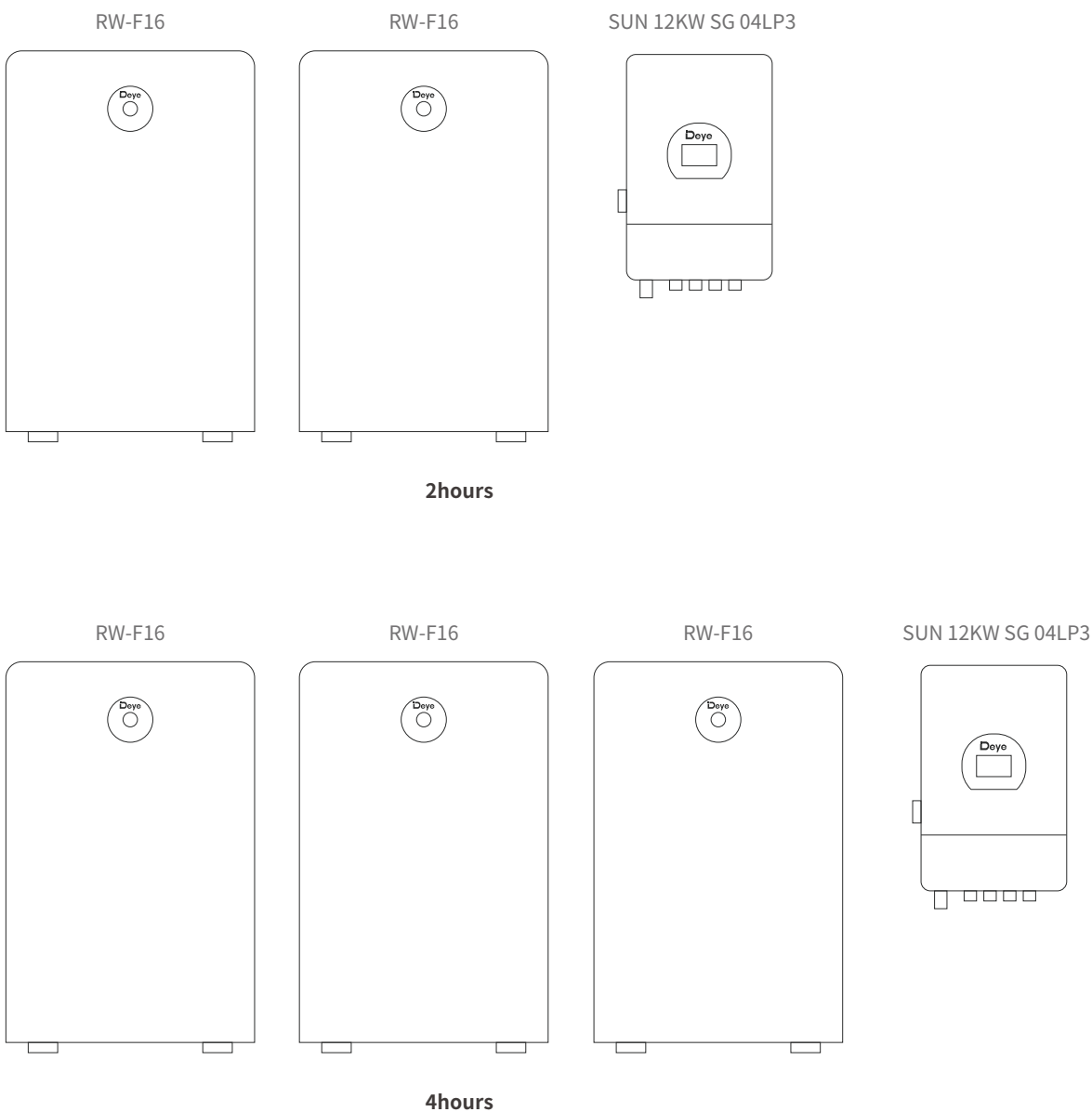
[1] Test conditions : 25°C±2°C, at beginning of life, 0.5C charge & 0.5C discharge,100% DOD.

[2] The current is affected by temperature and SOC.

[3] Conditions apply, refer to Deye Warranty Letter.

# Typical Application Scenarios

| Product Expansion   |         |         |         |
|---------------------|---------|---------|---------|
| Battery backup time |         | RW-F16  |         |
| Inverter            | 2h      | 3h      | 4h      |
| SUN 12KW SG 04LP3   | 2 units | -       | 3 units |
| SUN 12KW SG 02LP1   | 2 units | -       | 3 units |
| SUN 12KW SG 05LP3   | 2 units | -       | 3 units |
| SUN 20KW SG 05LP3   | 3 units | 4 units | 5 units |





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