

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 |
|---|-----------------|---|
| Main Parameter | | |
| Battery Chemistry | | LiFePO ₄ |
| Built-in Circuit Breaker | | 125A 2P, 60Vdc |
| Capacity (Ah) ^[1] | | 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) ^[1] | | 16 |
| Usable Energy (kWh@90%DOD) | | 14.4 |
| Charge / Discharge Current (A) ^[2] | Max. Continuous | 160 / 160 |
| | Peak | 300 / 300 (10 sec) |
| Other Parameter | | |
| 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 ^[3] | | 10 years |
| Energy Throughput ^[3] | | 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

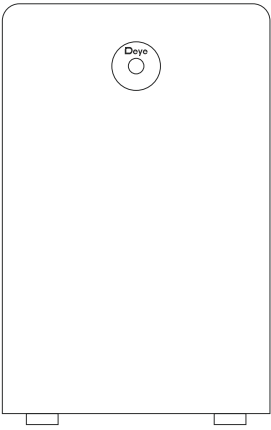
Product Expansion

Battery backup time

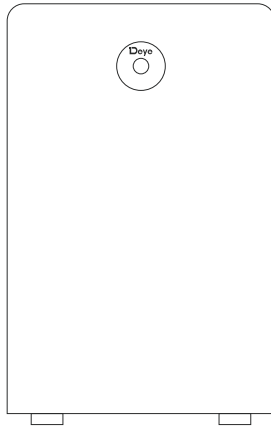
RW-F16

| 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 |

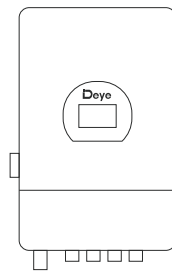
RW-F16



RW-F16

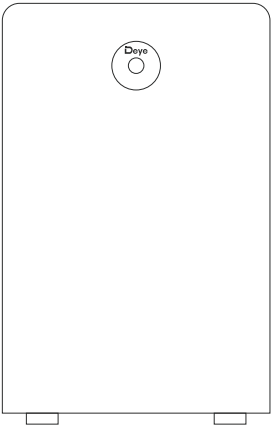


SUN 12KW SG 04LP3

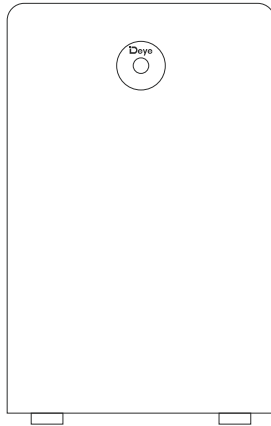


2hours

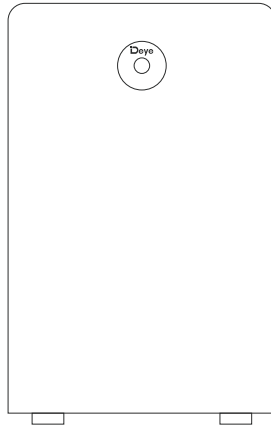
RW-F16



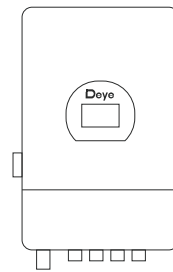
RW-F16



RW-F16



SUN 12KW SG 04LP3



4hours



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