Deye

RESIDENTIAL ESS SOLUTION

DEYE SPRING RW SERIES







Safe and Reliable

 LFP Battery with intelligent BMS for protection Monitors voltage, current, and temperature



Easy Installation

Wall-mounted and floor-mounted options ≥6000

-20 °C ~55 °C

Cycle

Wide Temperature



Long Service Life

1C/1.2C continuous charge/discharge
 BMS balances cell charging to extend cycle life



🕽 🔝 Flexible Expansion

 Supports up to 32 units in parallel
 Compatible with Deye inverters and multiple expansion methods 70%

EOl

10 years

Waranty for long-term

Residential ESS Solution



| Model RW-F10.2 Main Parameter LIFePO ₄ Built-in Circuit Breaker 125A 4P,60Vdc Capacity (Ah) 200 Nominal Voltage (V) 51.2 Operating Voltage (Wh) 10.2 Usable Energy (kWh) 9,2 (90%DOD) Scalability Max. 32 pcs pack (Max. 326kWh) in parallel Rated DC Power (kW) 6 Max DC Power (kW) 12 Charge / Discharge* Recommend Charge: 100 / Discharge: 100 Charge / Discharge* Recommend Charge: 198 / Discharge: 240 Current (A) Peak Discharge: 300 (2mins, 25°C) Operating Temperature (°C) O°C ~ 35°C Weight Approximate (kg) 104 Dimension (W × H × D, mm) 600 × 760 × 200 (Without hanging board) Master LED Indicator SOC state (20% ~ 100%), work state (alarming, protecting) Humidity 5% ~ 95% ~ 59% Altitude ≤3000m Cycle Life >6000 (25°C±2°C, 0.5C / 0.5C, 90%DOD, 70%EOL) IP Rating of Enclosure IP65 Installation Location Wa | | Deye Deye | Deye |
|--|---|-----------|---|
| Battery Type LiFePO₄ Built-In Circuit Breaker 125A 4P, 60Vdc Capacity (Ah) 200 Nominal Voltage (V) 51.2 Operating Voltage (V) 43.2 - 57.6 Rated Energy (kWh) 10.2 Usable Energy (kWh) 9.2 (90%DOD) Scalability Max. 32 pcs pack (Max. 326kWh) in parallel Rated DC Power (kW) 6 Max DC Power (kW) 12 Charge : Dloscharge : Max DC Power (kW) 12 Charge : Dloscharge : 100 / Discharge : 100 Charge : 198 / Discharge : 240 Current (A) Discharge : 300 (2mins, 25°C) Operating Temperature (°C) O°C ~ 35°C Storage Temperature (°C) O°C ~ 35°C Weight Approximate (kg) 104 Dimension (W × H × D, mm) 600 × 760 × 200 (Without hanging board) Master LED Indicator SOC state (20% ~ 100%), work state (alarming, protecting) Humidity 5% ~ 95% Altitude ≤ 3000m Cycle Life >6000 (25°C ± 2°C, 0.5C, 0.5C, 90%DOD, 70%EOL) IP Rating of Enclosure IP65 Installation Location | Model | | RW-F10.2 |
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| Capacity (Ah) 200 Nominal Voltage (V) 51.2 Operating Voltage (V) 43.2 ~ 57.6 Rated Energy (kWh) 10.2 Usable Energy (kWh) 9.2 (90%DDD) Scalability Max. 32 pcs pack (Max. 326kWh) in parallel Rated DC Power (kW) 6 Max DC Power (kW) 12 Charge / Discharge 1 Nominal Charge : 100 / Discharge : 100 Current (A) Peak Discharge : 198 / Discharge : 240 Discharge : 300 (2 mins, 25°C) Operating Temperature (°C) Charge : 1 ~ 55°C / Discharge : -20°C ~ 55°C Storage Temperature (°C) 0°C ~ 35°C Weight Approximate (kg) 104 Dimension (W × H × D, mm) 600 × 760 × 200 (Without hanging board) Master LED Indictor SOC state (20% ~ 100%), work state (alarming, protecting) Humidity 5% ~ 95% Altitude ≤3000m Cycle Life >6000 (25°C ± 2°C, 0.5C / 0.5C, 90%DOD, 70%EOL) IP Rating of Enclosure IP65 Installation Location Wall-Mounted, Floor-Mounted Recommend Depth of Discharge CAN2.0, RS485 | Battery Type | | LiFePO ₄ |
| Nominal Voltage (V) 51.2 Operating Voltage (V) 43.2 ~ 57.6 Rated Energy (kWh) 10.2 Usable Energy (kWh) 9.2 (90%DOD) Scalability Max. 32 pcs pack (Max. 326kWh) in parallel Rated DC Power (kW) 6 Max DC Power (kW) 12 Charge / Discharge 1 Recommend Nominal Charge : 100 / Discharge : 100 Charge : 198 / Discharge : 240 Charge : 198 / Discharge : 240 Current (A) Peak Discharge : 300 (2mins, 25°C) Operating Temperature (°C) Charge : 1 ~ 55°C / Discharge : -20°C ~ 55°C Storage Temperature (°C) 0°C ~ 35°C Weight Approximate (kg) 104 Dimension (W × H × D, mm) 600 × 760 × 200 (Without hanging board) Master LED Indicator 50C state (20% ~ 100%) , work state (alarming, protecting) Humidity 5% ~ 95% Altitude ≤3000m Cycle Life ≥6000 (25°C ± 2°C, 0.5C / 0.5C, 90%DOD, 70%EOL) IP Rating of Enclosure IP65 Installation Location Wall-Mounted, Floor-Mounted Recommend Depth of | Built-In Circuit Breaker | | 125A 4P, 60Vdc |
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| Scalability Max. 32 pcs pack (Max. 326kWh) in parallel Rated DC Power (kW) 6 Max DC Power (kW) 12 Charge / Discharge 1 Donating 2 Discharge 2 Discharge 2 Discharge 2 Discharge 2 240 Charge 198 / Discharge 2 240 Current (A) Discharge 3 00 (2mins, 25°C) Operating Temperature (°C) Charge 11 ~ 55°C / Discharge 2 - 20°C ~ 55°C Storage Temperature (°C) 0°C ~ 35°C Weight Approximate (kg) 104 Dimension (W × H × D, mm) 600 × 760 × 200 (Without hanging board) Master LED Indicator SOC state (20% ~ 100%), work state (alarming, protecting) Humidity 5% ~ 95% Altitude \$6000 (25°C ± 2°C, 0.5C / 0.5C, 90%DOD, 70%EOL) IP Rating of Enclosure IP65 Installation Location Wall-Mounted, Floor-Mounted Recommend Depth of Discharge 90% Communication Port CAN2.0, RS485 Warranty Period² 10 years Energy Throughput 32MWh (25°C, 0.5C / 0.5C, 70%EOL) | Rated Energy (kWh) | | 10.2 |
| $ \begin{array}{llllllllllllllllllllllllllllllllllll$ | Usable Energy (kWh) | | 9.2 (90%DOD) |
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| Charge / Discharge¹ Recommend Charge: 100 / Discharge: 100 Current (A) Nominal Charge: 198 / Discharge: 240 Peak Discharge: 300 (2mins, 25°C) Operating Temperature (°C) Charge: 1 ~ 55°C / Discharge: -20°C ~ 55°C Storage Temperature (°C) 0°C ~ 35°C Weight Approximate (kg) 104 Dimension (W × H × D, mm) 600 × 760 × 200 (Without hanging board) Master LED Indicator SOC state (20% ~ 100%), work state (alarming, protecting) Humidity 5% ~ 95% Altitude ≤3000m Cycle Life ≥6000 (25°C±2°C, 0.5C / 0.5C, 90%DOD, 70%EOL) IP Rating of Enclosure IP65 Installation Location Wall-Mounted, Floor-Mounted Recommend Depth of Discharge 90% Communication Port CAN2.0, RS485 Warranty Period² 10 years Energy Throughput 32MWh (25°C, 0.5C / 0.5C, 70%EOL) | Rated DC Power (kW) | | 6 |
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| Dimension (W × H × D, mm) $600 \times 760 \times 200$ (Without hanging board)Master LED IndicatorSOC state ($20\% \sim 100\%$), work state (alarming, protecting)Humidity $5\% \sim 95\%$ Altitude $\leq 3000m$ Cycle Life $\geqslant 6000$ ($25^{\circ}\text{C} \pm 2^{\circ}\text{C}$, 0.5C / 0.5C , $90\%\text{DOD}$, $70\%\text{EOL}$)IP Rating of EnclosureIP65Installation LocationWall-Mounted, Floor-MountedRecommend Depth of Discharge 90% Communication PortCAN2.0, RS485Warranty Period² 10 years Energy Throughput 32MWh (25°C , 0.5C / 0.5C , $70\%\text{EOL}$) | Storage Temperature (°C) | | 0°C ~ 35°C |
| Master LED IndicatorSOC state ($20\% \sim 100\%$), work state (alarming, protecting)Humidity $5\% \sim 95\%$ Altitude $\leq 3000 \text{m}$ Cycle Life $\geq 6000 (25^{\circ}\text{C} \pm 2^{\circ}\text{C}, 0.5\text{C}/0.5\text{C}, 90\%\text{DOD}, 70\%\text{EOL})$ IP Rating of EnclosureIP65Installation LocationWall-Mounted, Floor-MountedRecommend Depth of Discharge 90% Communication PortCAN2.0, RS485Warranty Period² 10 years Energy Throughput $32\text{MWh} (25^{\circ}\text{C}, 0.5\text{C}/0.5\text{C}, 70\%\text{EOL})$ | Weight Approximate (kg) | | 104 |
| Humidity $5\% \sim 95\%$ Altitude≤3000mCycle Life≥6000 (25°C±2°C, 0.5C / 0.5C, 90%DOD, 70%EOL)IP Rating of EnclosureIP65Installation LocationWall-Mounted, Floor-MountedRecommend Depth of Discharge90%Communication PortCAN2.0, RS485Warranty Period²10 yearsEnergy Throughput32MWh (25°C, 0.5C / 0.5C, 70%EOL) | Dimension (W \times H \times D, mm) | | $600 \times 760 \times 200$ (Without hanging board) |
| Altitude ≤3000m Cycle Life ≥6000 (25°C±2°C, 0.5C / 0.5C, 90%DOD, 70%EOL) IP Rating of Enclosure IP65 Installation Location Wall-Mounted, Floor-Mounted Recommend Depth of Discharge 90% Communication Port CAN2.0, RS485 Warranty Period² 10 years Energy Throughput 32MWh (25°C, 0.5C / 0.5C, 70%EOL) | Master LED Indicator | | SOC state (20% ~ 100%), work state (alarming, protecting) |
| Cycle Life≥6000 (25°C±2°C, 0.5C / 0.5C, 90%DOD, 70%EOL)IP Rating of EnclosureIP65Installation LocationWall-Mounted, Floor-MountedRecommend Depth of Discharge90%Communication PortCAN2.0, RS485Warranty Period²10 yearsEnergy Throughput32MWh (25°C, 0.5C / 0.5C, 70%EOL) | Humidity | | 5% ~ 95% |
| IP Rating of EnclosureIP65Installation LocationWall-Mounted, Floor-MountedRecommend Depth of Discharge90%Communication PortCAN2.0, RS485Warranty Period²10 yearsEnergy Throughput32MWh (25°C, 0.5C / 0.5C, 70%EOL) | Altitude | | ≤3000m |
| Installation Location Wall-Mounted, Floor-Mounted Recommend Depth of Discharge 90% Communication Port CAN2.0, RS485 Warranty Period ² 10 years Energy Throughput 32MWh (25°C, 0.5C / 0.5C, 70%EOL) | | | ≥6000 (25°C±2°C, 0.5C / 0.5C, 90%DOD, 70%EOL) |
| Recommend Depth of Discharge90%Communication PortCAN2.0, RS485Warranty Period²10 yearsEnergy Throughput32MWh (25°C, 0.5C / 0.5C, 70%EOL) | IP Rating of Enclosure | | IP65 |
| Communication PortCAN2.0, RS485Warranty Period²10 yearsEnergy Throughput32MWh (25°C, 0.5C / 0.5C, 70%EOL) | Installation Location | | Wall-Mounted, Floor-Mounted |
| Warranty Period²10 yearsEnergy Throughput32MWh (25°C, 0.5C / 0.5C, 70%EOL) | Recommend Depth of Discharge | | 90% |
| Energy Throughput 32MWh (25°C, 0.5C / 0.5C, 70%EOL) | Communication Port | | CAN2.0, RS485 |
| | Warranty Period ² | | 10 years |
| Certification ³ UN38.3, IEC62619, CE, CEI 0-21, VDE2510-50, CEC | | | 32MWh (25°C, 0.5C / 0.5C, 70%EOL) |
| | Certification ³ | | UN38.3, IEC62619, CE, CEI 0-21, VDE2510-50, CEC |

- [1] The current is affected by temperature and SOC.
- [2] Conditions apply, refer to Deye Warranty Letter.
- [3] Made in China

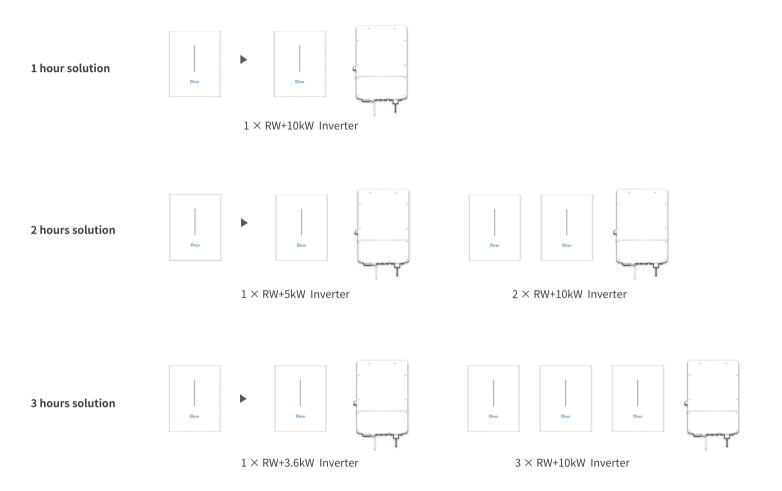


Residential ESS Solution

Residential ESS Solutions

Typical configuration

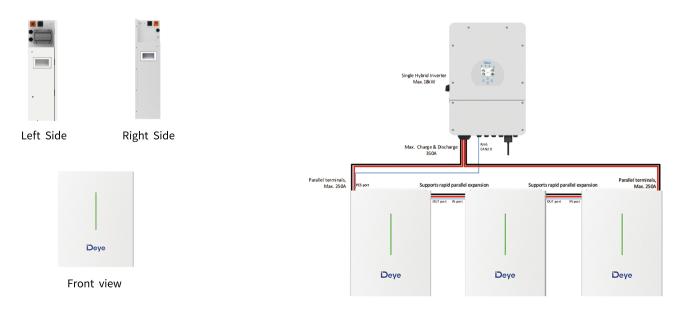
Support 5kW, 12kW and up to 18kW inverters to connect the battery, and 1 to 3 batteries can be connected in parallel.



Product Application & System Topology Reference

Main Application Scenarios

It is suitable for applications with high power, limited installation space, limited carrying capacity, and long cycle life.







SCENARIO-BASED ENERGY MANAGEMENT SOLUTIONS

- · Utilize energy in every household needs.
- \cdot Embrace effortless energy experience that's both eco-friendly and budget-friendly with our intelligent assistant.

SMARTEN-UP YOUR HOME ENERGY

- · Real-time monitoring, with data information at a glance.
- · Create scenario-based tasks that adapt to your daily routines.
- · A smarter way to manage your electricity bills.

CONNECT, MONITOR, CONTROL

Seamlessly integrated with Deye devices for a smarter, more efficient energy experience.

- · User-friendly interface demystifies complex settings.
- · Clear menu hierarchy, key information at your finger tips.















