

# RW-F5.3-2H3



## All-in-one Energy Storage System



- All-in-one design, integrated 3kW hybrid inverter and 5.3kWh LFP battery, safety and long lifespan.
- Comfortable and easy control via App, PC or Touch-Display.  
Leading smart application: peak-shaving, smart load, AC couple etc.
- Flat design, wall-mounted, saving installation space, quick and easy installation.
- Fast switching time of 4ms, ensuring your energy security.
- Easy to expand, support multiple parallel, Max.16 units(48kW/84.8kWh). Also support expansion of Deye 5.3kWh battery, Max. 31 batteries expansion, Max. capacity of 164.3kWh.
- Built-in Intelligent BMS, providing complete protection. Natural cooling, IP65, wide temperature range: -20°C to 55°C.

## Technical Data

| Model                                 | RW-F5.3-2H3  |
|---------------------------------------|--|
| <b>AC Technical Specification</b>     |  |
| Nominal Output Power/UPS Power (W)    | 3000/3000  |
| AC Output Frequency and Voltage       | 50Hz (45Hz-55Hz), L/N (PE), 220/230 Vac  |
| Grid Type                             | Single phase   |
| Peak Power (off grid)                 | 2 time of rated power, 10s   |
| Power Factor Adjustment Range         | 0.8 leading to 0.8 lagging   |
| Power Factor                          | 1  |
| DC injection current (mA)             | THD<3% (Linear load<1.5%)  |
| <b>DC Technical Specification</b>     |  |
| Max. PV Input Power (W)               | 3900   |
| Max. PV Input Current (A)             | 15   |
| Rated PV Input Voltage (Vdc)          | 300 (125~450)  |
| Start Up DC Voltage (Vdc)             | 125  |
| MPPT Voltage Range (Vdc)              | 150~425  |
| Max. PV Short-circuit Current (A)     | 18   |
| Number of MPPT                        | 1  |
| Battery Chemistry                     | LiFePO4  |
| Battery Nominal Voltage (V)           | 51.2   |
| Battery Energy Configuration (kWh)    | 5.32   |
| Max. Charging/Discharging Current (A) | 75   |
| Battery Operating Voltage (V)         | 43.2~57.6  |
| Battery Cycle Life                    | ≥6000 (@25°C±2°C, 0.5C/0.5C, 70%EOL)   |
| <b>Other Technical Specification</b>  |  |
| Dimension (W/D/H,mm)                  | 616*191*690  |
| Weight Appr. (kg)                     | 76.5   |
| Operating Temperature Range (°C)      | Inverter: -40°C~60°C (>45°C derating),<br>Battery Charge: 0°C~55°C / Discharge: -20°C~55°C                               |
| Display                               | LCD  |
| Relative Humidity                     | 15% ~ 85% (No Condensing)  |
| Safety EMC/Standard                   | IEC62619, UN38.3, IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4 |
| Grid Regulation                       | VDE4105, IEC61727/62116, VDE0126,AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150           |
| Max. Efficiency                       | 97.60%   |
| Max. charging/discharging efficiency  | 95.50%   |
| IP Rating of Enclosure                | IP65   |
| Installation Style                    | Wall-Mounted   |