



## RW-F5.3-1H3 RW-F5.3-2H3

## Low Voltage All-in-one Energy Storage System



All-in-one design, integrated 3.6kW hybrid inverter and 5.3kWh LFP battery, or 5 kW 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 (57.6kW/84.8kWh or 80kW/84.8kWh). Also support expansion of Deye 5.3kWh LV battery, Max. 31 batteries expansion, Max. capacity of 164.3kWh.



Built-in Intelligent BMS, providing complete protection. Natural cooling and Intelligent Air Cooling, IP65, wide temperature range: -10°C to 55°C.

Model	RW-F5.3-2H3	RW-F5.3-1H3
<b>AC Technical Specification</b>		
Nominal Input/Output Power/UPS Power	3,600/3,600W	5,000/5,000W
AC Input/Output Frequency and Voltage	50Hz (45Hz ~ 55Hz), 60Hz (55Hz ~ 65Hz), L/N (PE), 220/230 Vac	
Grid Type	Single phase	
AC Output Rated Current	16.4/15.7A	22.7/21.7A
Max. AC Current	18/17.2A	25.0/23.9A
Max. Continuous AC Passthrough	35A	
Peak Power (off grid)	2 time of rated power, 10s	
Power Factor	0.8 leading to 0.8 lagging	
Total Harmonic Distortion (THD)	<3% (of nominal power)	
DC injection current	<0.5% In(mA)	
<b>DC Technical Specification</b>		
Max. PV Input Current	4,680W	6,500W
Rated PV Input Voltage	370 (125 ~ 500) Vdc	
Start Up DC Voltage	125Vdc	
MPPT Voltage Range	150 ~ 425Vdc	
PV Input Current	18+18A	
Max. PV Short-circuit Current	27+27A	
Number of MPP Trackers	2	
No. of Strings Per MPP Tracker	1+1	
Battery Chemistry	LiFePO4	
Battery Nominal Voltage	51.2V	
Battery Energy Configuration	5.32kWh	
Max. Charging/Discharging Current	75A	100A
Battery Operating Voltage	44.8 ~ 57.6V	
Battery Cycle Life	≥6,000 (@25°C±2°C, 0.5C/1C, 70%EOL)	
<b>Other Technical Specification</b>		
Dimension (W × D × H)	616 × 191 × 690mm (Excluding connectors and brackets)	
Weight Appr.	71kg	
IP Rating of Enclosure	IP65	
Installation Style	Wall-Mounted	
Operating Temperature Range	Inverter: -40°C ~ 60°C (>45°C derating), Battery Charge and Discharge: -10°C ~ 55°C	
Relative Humidity	15% ~ 85% (No Condensing)	
Cooling	Natural Cooling	
Noise	<30 dB	
Display	Touch LCD	
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2	
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105	
Max. Solar to Battery to Home/Grid Efficiency	89%	
Max. Solar to Home/Grid Efficiency	97%	
MPPT Efficiency	>99%	
Warranty	10 years (More Info Please Refer to Warranty Policy)	

