RESIDENTIAL ESS SOLUTION

DEYE SPRING RW SERIES



Easy Operation & Maintenance

- Battery module auto networking (No DIP switchs)
- 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.

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.

Safer

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

Reliable

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

⩾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.

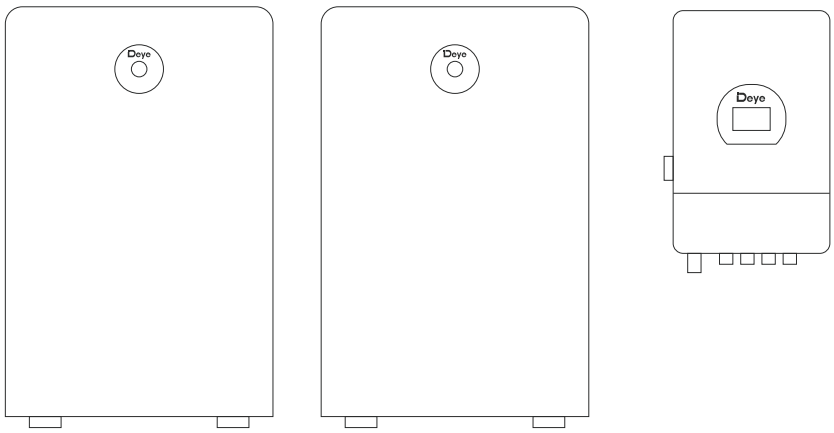
[2] The current is affected by temperature and SOC.

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

Typical Application Scenarios

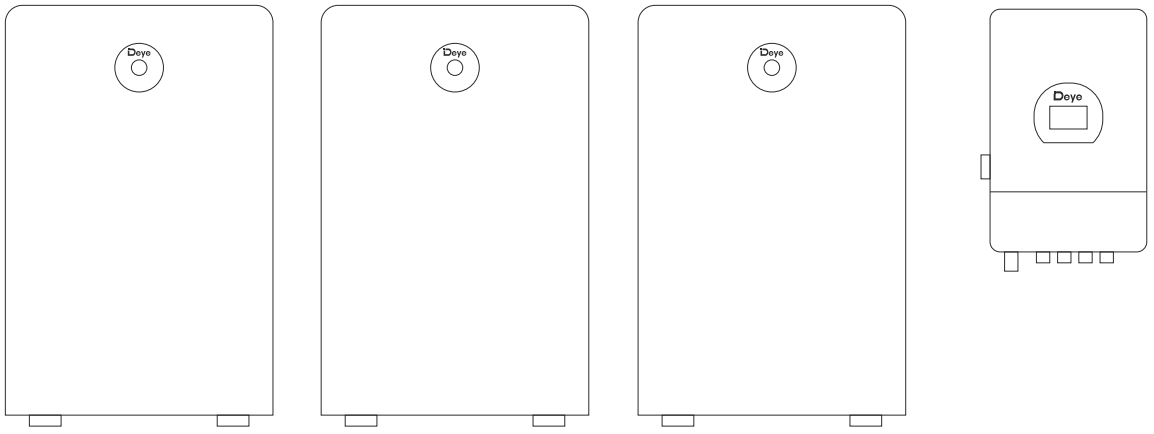
Product Expansion			
Battery backup time		**RW-F16**	
Inverter	2h	3h	4h
SUN 12KW SG 04LP3	2 units	-	3 units
SUN 12KW SG 02LP1	2 units	-	3 units
SUN 12KW SG 05LP3	2 units	-	3 units
SUN 20KW SG 05LP3	3 units	4 units	5 units

RW-F16 RW-F16 SUN 12KW SG 04LP3



2hours

RW-F16 RW-F16 RW-F16 SUN 12KW SG 04LP3



4hours

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