

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.



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°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]	5 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.

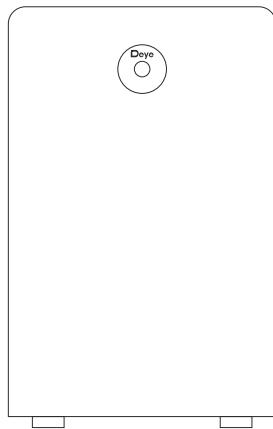


Typical Application Scenarios

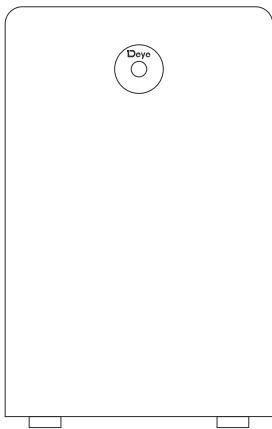
Product Expansion

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

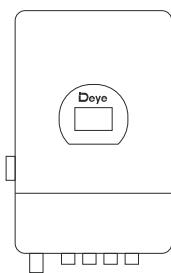
RW-F16



RW-F16

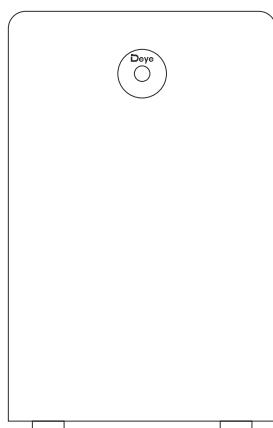


SUN 12KW SG 04LP3

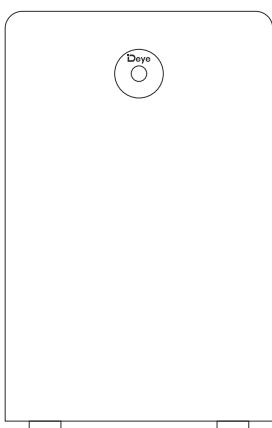


2hours

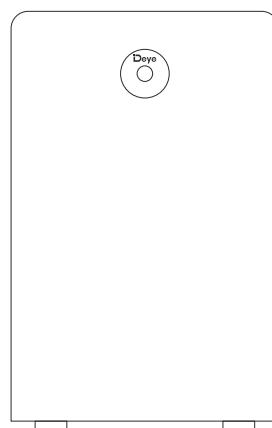
RW-F16



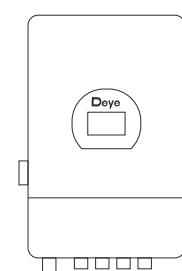
RW-F16



RW-F16



SUN 12KW SG 04LP3



4hours



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