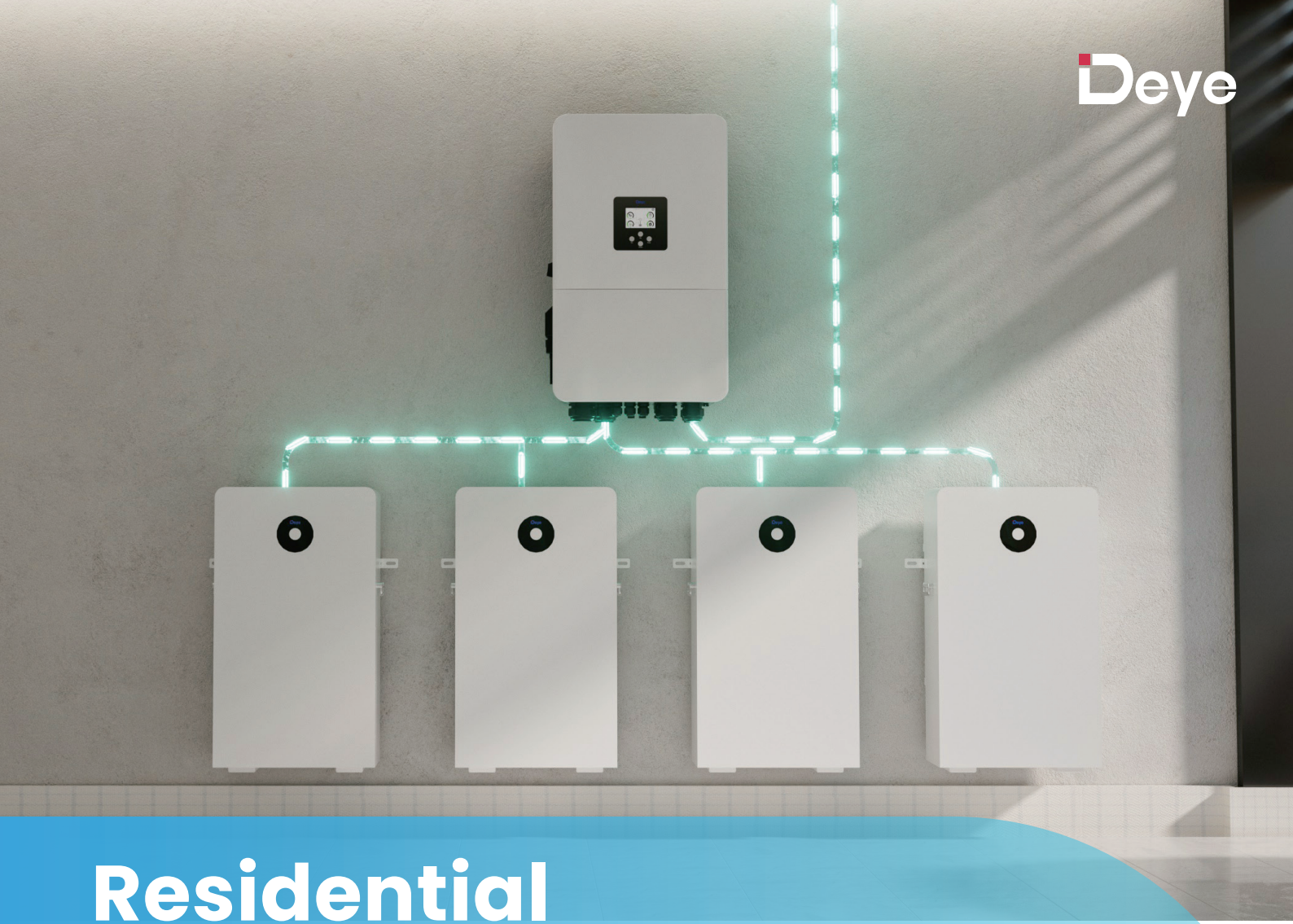


Residential
Energy Storage Solution

SUN-20K-SG05LP3-EU-SM2 & RW-F16

SUN-20K-SG05LP3-EU-SM2

Multi-Functional & High-Performance
100% unbalanced output each phase

Versatile Power Backup
Supports energy storage from diesel generator

Safe & Reliable Battery Design
48V low voltage battery with transformer isolation

Scalable Energy Storage
Max. 10 units in parallel for on-grid & off-grid operation

High Charging Efficiency
Max. charging/discharging current of 350A

Dynamic 24/7 Energy Management Optimization
6 time periods for battery charging/discharging

Flexible & Universal Compatibility
AC coupled with retrofit solar system

RW-F16

Ultimate Safety
Safest LFP battery & Intelligent BMS

External Power Support
External power activation, prevents battery suspension

Flexible Expansion
Max. 32 units in parallel

Superior Output
Max. 8kW output power

Flexible Application
Built-in 10A constant current limited charging
Compatible with many inverter brands

Easy Maintenance
Allow over-discharge direct recharge

Residential Energy Storage Solution

Model		RW-F16
Main Parameters		
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 / 10 years
Energy Throughput [3]		26.25 / 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.

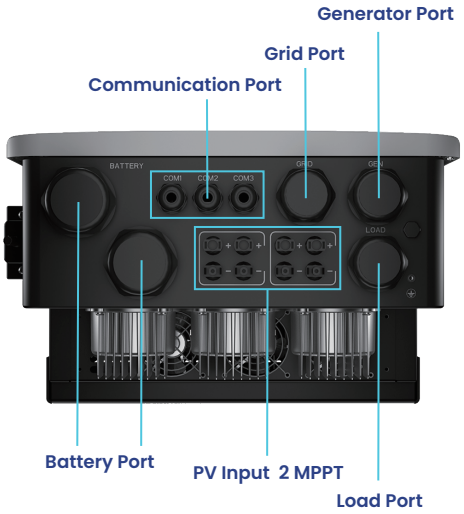
[3] Conditions apply, refer to Deye Warranty Letter.



Residential Energy Storage Solution

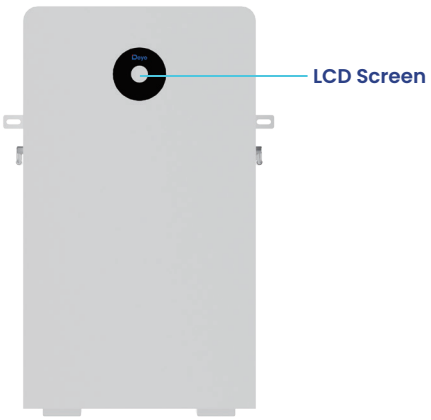
Model SUN-20K-SG05LP3-EU-SM2

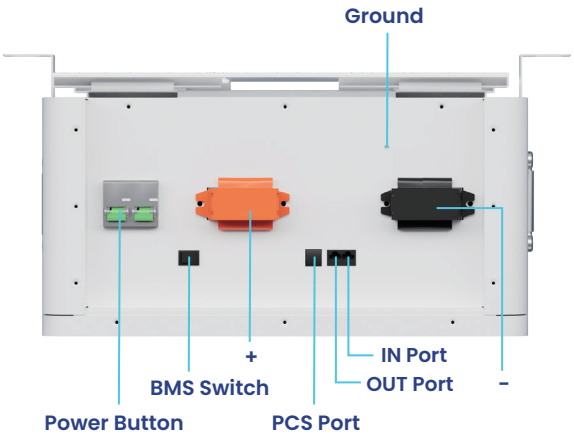




◎ Battery Port: Dual independent battery circuit port, supporting multiple brand battery connetion and battery voltage range 40-60V.
◎ Communication Port: Serve as communicate with battery and data exchange between inverter and extra devices.
◎ Load Port: Offer AC power to connected loads.
◎ Grid Port: Connect to utility grid, for bidirectional power transfer: importing from and exporting to the grid.
◎ Generator Port: Connect to diesel generator for backup power supply during outages, also can connect with existing solar inverter for AC Coupling.
◎ PV Input: Connect to PV panels with 2 MPPTs.

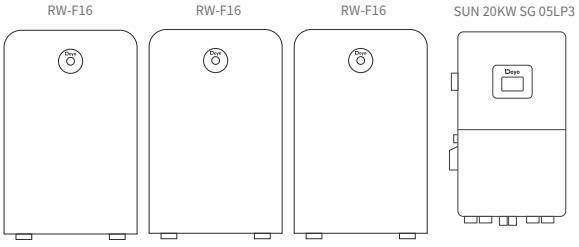
Model RW-F16



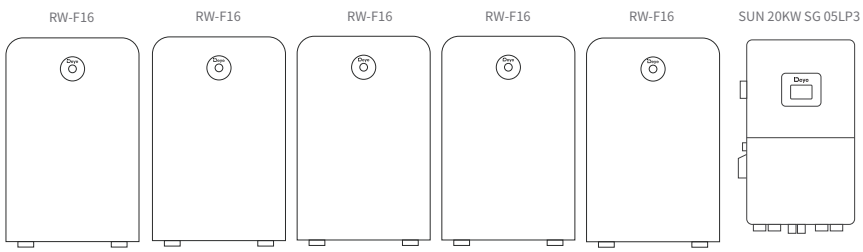


◎ LCD Screen:To indicate the state of the battery system.
◎ Power Button:To power on /off the battery.
◎ BMS Switch:To turn ON/OFF the BMS of the battery.
◎ -:Battery negative terminal connection position.
◎ +:Battery positive terminal connection position.

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



2hours



4hours