



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

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Model SUN-20K-SG05LP3-EU-SM2

Battery Input Data

Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range (V)	40-60
Max. Charging Current (A)	350
Max. Discharging Current (A)	350
Charging Strategy for Li-ion Battery	Self-adaption to BMS
Number of Battery Input	1

PV String Input Data

Max. PV Access Power (W)	40000
Max. PV Input Power (W)	32000
Max. PV Input Voltage (V)	800
Start-up Voltage (V)	160
MPPT Voltage Range (V)	160-650
Rated PV Input Voltage (V)	550
Max. Operating PV Input Current (A)	36+36
Max. Input Short-Circuit Current (A)	54+54
No. of MPP Trackers/ No. of Strings MPP Tracker	2/2+2

AC Input/Output Data

Rated AC Input/Output Active Power (W)	20000
Max. AC Input/Output Apparent Power (VA)	22000
Rated AC Input/Output Current (A)	30.4/29
Max. AC Input/Output Current (A)	33.4/31.9
Max. Continuous AC Passthrough (grid to load) (A)	70
Peak Power (off-grid) (W)	2 times of rated power, 10s
Power Factor Adjustment Range	0.8 leading to 0.8 lagging
Rated Input/Output Voltage/Range (V)	220/380V, 230/400V 0.85Un-1.1Un
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55,60/55-65
Grid Connection Form	3L+N+PE
Total Current Harmonic Distortion THDi	<3% (of nominal power)
DC Injection Current	<0.5% In

Efficiency

Max. Efficiency	97.6%
Euro Efficiency	97.0%
MPPT Efficiency	>99%

Equipment Protection

Integrated

DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch, DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection level

TYPE II(DC), TYPE II(AC)

Surge Protection Level

Interface

Communication Interface

RS485/RS232/CAN

Monitor Mode

GPRS/WIFI/Bluetooth/4G/LAN(optional)

General Data

Operating Temperature Range(°C) •	-40 to +60°C, >45°C Derating
Permissible Ambient Humidity	0-100%
Permissible Altitude	3000m
Noise (dB)	<60
Ingress Protection(IP) Rating	IP 65
Inverter Topology	Non-Isolated
Over Voltage Category	OVC II(DC), OVC III(AC)
Cabinet Size (WxHxD mm)	456×750×268.5(Excluding Connectors and Brackets)
Weight (kg)	51.9
Type of Cooling	Intelligent Air Cooling
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy
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
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2

Residential Energy Storage Solution

Model	RW-F16
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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	Max. Continuous
Current (A) ^[2]	160 / 160
	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.

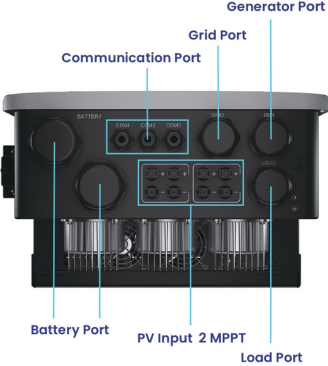


Residential Energy Storage Solution

Model

SUN-20K-SG05LP3-EU-SM2



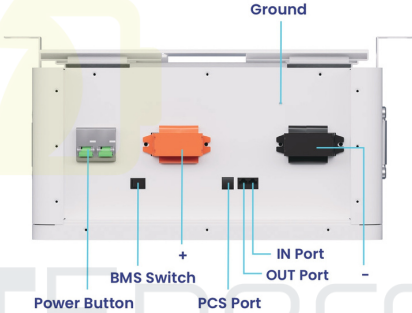


- ⦿ Battery Port: Dual independent battery circuit port, supporting multiple brand battery connection and battery voltage range 40-60V.
- ⦿ Communication Port: Serve as communicate with battery and data exchange between inverter and extra devices.
- ⦿ Load Port: Offer AC power to connected loads.
- ⦿ 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

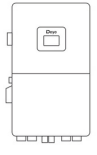
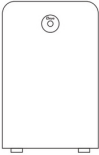
RW-F16



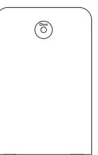


- ⦿ LCD Screen: To indicate the state of the battery system.
- ⦿ Power Button: To power on /off the battery.
- ⦿ BMS Switch: To turn ON/OFF the BMS of the battery.
- ⦿ -: Battery negative terminal connection position.
- ⦿ +: Battery positive terminal connection position.

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

Deye Cloud

All-in-one Energy & Device Management Platform

-  Unlock Significant Savings
-  Individual Add-On for Dynamic Tariff
-  Intelligent Charging/Discharging Strategies
-  Tailored Solution to Deye Devices
-  Real-time Equipment Monitoring



Smarten Up Your Home Energy

Download Deye Cloud APP to join us!

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All in One

Smarter home energy and device management

Cloud-edge Collaboration

Faster and more efficient data processing

Accelerated Connectivity

Optimized for speed and performance

Advanced Smart Energy

A smarter way to manage your electricity bills



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AVANTAJE EXCLUSIVISTE INSTALATORI & REVÂNZĂTORI B2B



Preturi
dedicate

**Pentru Instalatori
& Revânzători**

Stoc
permanent
în România



Livrare
imediată
24 - 48 ore

01 **Prețuri dedicate**
Pentru **Instalatori**
& **Revânzători**

Punem accent pe parteneriatele noastre și recunoaștem rolul vital pe care îl jucați în industria energiei solare.

De aceea, oferim prețuri dedicate și competitive pentru instalatori și revânzători.

Aveți avantajul de a obține produsele noastre la costuri atractive, ceea ce vă permite să maximizați profitabilitatea și să oferiți prețuri competitive clienților dumneavoastră.

Suntem aici să creștem împreună.



Avem un stoc amplu de echipamente fotovoltaice în depozitul nostru din România.

Acest lucru ne permite să vă oferim posibilitatea de a ridica produsele imediat după comandă.

Nu trebuie să vă faceți griji cu privire la disponibilitatea sau întârzierile în livrare.

Suntem aici pentru a vă asigura că aveți acces rapid la echipamentele necesare pentru proiectele dvs.

03

Livrare imediată
Livrare în 24-48 de ore
oriunde în România



Înțelegem importanța unei livrări rapide și eficiente, într-o piață din ce în ce mai concurențială.

Cunoaștem urgența cu care utilizatorul final își dorește să definitiveze proiectul.

Colaborând cu Ecobat Energy, beneficiați de livrarea comenzilor dvs. în termen de 24-48 de ore, indiferent de locația din România.

Ne angajăm să vă furnizăm produsele la timp, astfel încât să puteți continua proiectele în mod eficient.



Ești instalator sau revânzător de echipamente fotovoltaice?

**Devino partener B2B EcobatEnergy
și beneficiază acum de toate
avantajele exclusive.**

www.ecobatenergy.ro

office@ecobatenergy.ro

[0786.913.321](tel:0786.913.321)