

# **POWERING YOUR LIFE**





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SUN-3/3.6/5/6K-OG01LP1-EU-AM2 SE-F5 / SE-F12 / RW-G10.6 / RW-F16 / SE-G5.1 / SE-G10.2













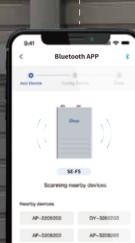
Model	SUN-3K-OG01LP1 -24-EU-AM2	SUN-3.6K-OG01LP1 -EU-AM2	SUN-5K-OG01LP1 -EU-AM2	SUN-6K-OG01LP1 -EU-AM2
Battery Input Data				
Battery Type		Lead-acid o	r Lithium-ion	
Battery Voltage Range (V)	20-30 40-60			
Max. Charging Current (A)	130	90	120	135
Max. Discharging Current (A)	130	90	120	135
Charging Strategy for Li-ion Battery		Self-adapt	ion to BMS	
Number of Battery Input		·	1	
PV String Input Data				
Max. PV Access Power (W)	6000	7200	10000	12000
Max. PV Input Power (W)	4800	5760	8000	9600
Max. PV Input Voltage (V)		5	00	
Start-up Voltage (V)	125			
PV Input Voltage(V)	125-500			
MPPT Voltage Range(V)		150	-425	
Full Load MPPT Voltage Range(V)	300-425			
Rated PV Input Voltage (V)	370			
Max. Operating PV Input Current (A)	18 18+18			
Max. Input Short-Circuit Current (A)	27 27+27			
No. of MPP Trackers/No. of Strings MPP Tracker	1/1		2/1+1	
Max. Inverter Backfeed Current to The Array(A)			0	
AC Output Data				
Rated AC Output Power (VA/W)	3000	3600	5000	6000
Max. AC Output Power (VA/W)	3000	3600	5000	6000
Max. AC Output Current (A)	13.1	15.7	21.8	26.1
Peak Power (W)			red power, 10s	2011
Rated Output Voltage (V)			30	
Output Type			N+PE	
Rated Output Frequency		50Hz	/ 60Hz	
Output Voltage Waveform			ne Wave	
Total Current Harmonic Distortion THDi			3%	
AC Input Date(Grid and Generator)				
Max. Input Power to Battery (W)	3000	3600	5000	6000
Rated Input Voltage (V)			30	1 0000
Rated Input Frequency			/ 60Hz	
Gird Input Current (A)	35			
Generator Input Current (A)	35			
Efficiency				
Max. Efficiency		97	60%	
Euro Efficiency	97.60% 96.50%			
MPPT Efficiency	>90.50% >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			
Surge Protection Level	TYPE II(DC), TYPE II(AC)			
	(- 5)/ 2(-6)			

Interface		
LCD/LED Display	LCD	
Communication Interface	WIFI/RS485/CAN/Bluetooth	
General Data		
Max. Operating Frequency(Hz)	200M	
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating	
Permissible Ambient Humidity	0-100%	
Permissible Altitude	3000m	
Noise (dB)	<55	
Ingress Protection(IP) Rating	IP 65	
Inverter Topology	Non-Isolated	
Over Voltage Category	OVC II(DC), OVC III(AC)	
Cabinet Size (WxHxD mm)	306×427.5×175.77 (Excluding Connectors and Brackets)	
Weight (kg)	12.65	
Type of Cooling	Intelligent Air Cooling	
Warranty	Standard 5 years, extended warranty	
Safety / EMC Standard	IEC62109-1/2, EN61000-6-6, EN61000-6-3, EN61000-6-4	

# OFF-GRID ESS SOLUTION

**COMBINATION 1** 

SUN-3.6/5/6K-OG01LP1-EU-AM2 SE-F5/SE-F12





### **Comprehensive Protection**

SE-F5

- Advanced BMS with active fuse

### **Optimized Energy Density**

- Integrated PACK: reduced line loss, enhanced energy density

# **Easy Maintenance**

- Auto-networking, Deye Cloud & Bluetooth APP remote/local control

# **Superior Performance**

- Supports Max. 1.2C (6kW or 12kW) discharge, GaN MOSFETs: 50% loss reduction, high-temp resistance

### **Flexible Expansion**

- Max. 32 units in parallel

### **Reliable Durability**

- Operates reliably in -20 °C to 55 °C, natural cooling

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			. 12		
Model		SE-F5	SE-F12		
Main Parameters					
Battery Chemistry		LiFePO <sub>4</sub>			
Capacity [1]		100 Ah	230 Ah		
Scalability		Max. 32 pc	Max. 32 pcs in parallel		
Nominal Voltage		51.2 V			
Operating Voltage		44.8 V ~ 57.6 V			
Nominal Energy [1]		5.12 kWh	11.8 kWh		
Charge Current [2]	Max. Continuous	50 A	115 A		
	Peak	75 A ( 10 sec )	175 A ( 10 sec )		
Discharge Current [2]	Max. Continuous	120 A	230 A		
Discharge Current [2]	Peak	150 A ( 10 sec )	280 A ( 10 sec )		
Other Parameter					
Recommend Depth of Discharge		80% DoD			
Dimension ( $W \times H \times D$ )		$370 \times 548  \times 140  \text{mm}$ ( Without hanging board )	$400 \times 583 \times 232  \text{mm}$ ( Without hanging board )		
Weight Approximate		41 kg	82 kg		
LED Indicator		LED ( SOC, working, protecting ) & Buzzer			
IP Rating of Enclosure		IP21			
Operating Temperature		Charge: 0∼55°C / Discharge: -20°C∼55°C			
Storage Temperature		0~35℃			
Relative Humidity		95% (non-condensing)			
Altitude		≤3000m			
Cycle Life		≥6000(25°C±2°C,80%DOD,70%EOL)			
Installation		Wall-Mounted, Stack-Mounted			
Communication	communication CAN2.0, RS485, Bluetooth, APP		Bluetooth, APP		
Warranty Period [3]		5 years			
Energy Throughput [3]		8 MWh	18 MWh		
Certification		UN38.3, MSDS			
Product Expansion		SE-F5	SE-F12		

1h

2h

3h

2 units 2 units 3 units

1 unit 2 units 3 units 4 units

1 unit 2 units 3 units 4 units

2h

1 unit

1 unit

3h

1 unit

2 units

2 units

2 units

2 units

- [1] Test conditions:  $25^{\circ}$ C $\pm 2^{\circ}$ C, at beginning of life and calibration mode, 0.2C charge & 0.2C discharge, 100% DOD.
- [2] The current is affected by temperature and SOC.
- [3] Conditions apply, refer to Deye Warranty Letter.

Battery backup time

SUN-3.6K-OG01LP1-EU-AM2

SUN-5K-OG01LP1-EU-AM2

SUN-6K-OG01LP1-EU-AM2

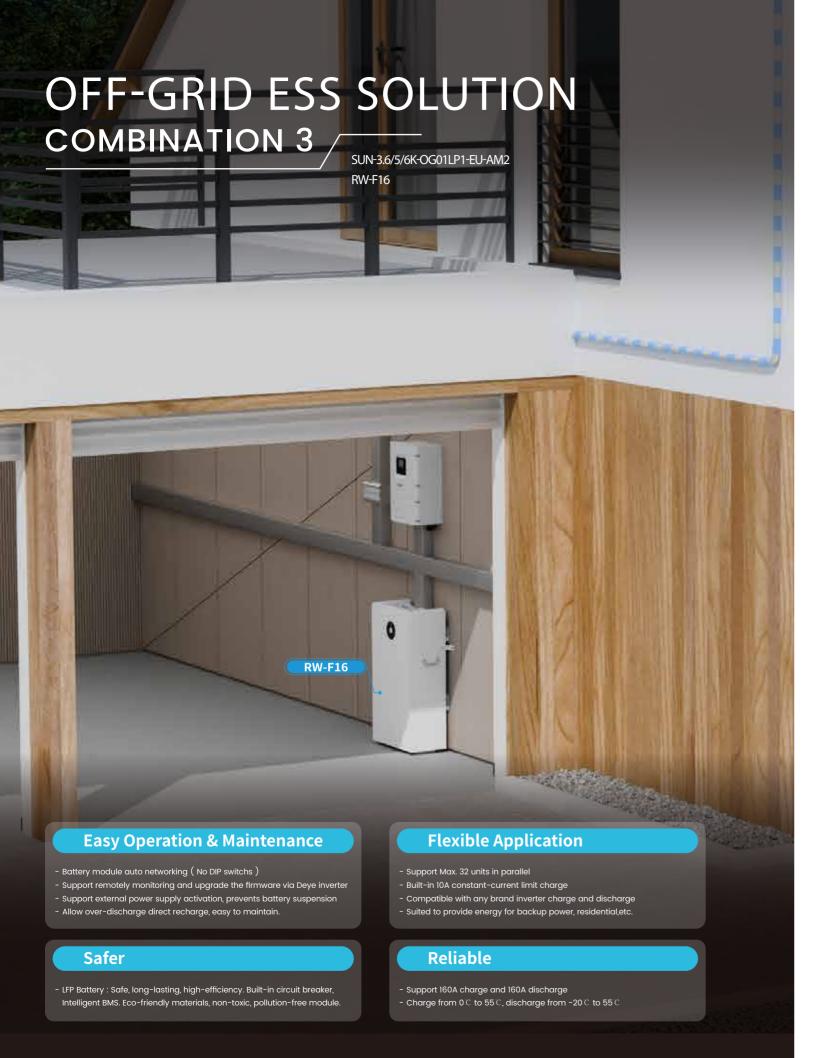
# OFF-GRID ESS SOLUTION COMBINATION 2 RW-G10.6 RW-G10.6 Deve **Easy Operation & Maintenance Flexible Application** tic networking for battery modules (No DIP switches) Support Max.32 units in parallel · Built-in 10A constant-current limit charge Support external power supply activation, prevents battery suspension · Compatible with any brand inverter charge and discharge Allow over-discharge direct recharge, easy to maintain · Suitable for providing energy for backup power (residential use) Safer Reliable - LFP Battery: safe, long-lasting, high-efficiency - Built-in circuit breaker, support 100A charge and 100A discharge - Eco-friendly materials, non-toxic, pollution-free module - Charge from 0 °C to 55 °C, discharge from -20 °C to 55 °C

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- [1] Test conditions :  $25^{\circ}$ C  $\pm 2^{\circ}$ C, at beginning of life, 0.3C charge & 0.3C discharge,100% DOD.
- [2] The current is affected by temperature and SOC.
- [3] Conditions apply, refer to Deye Warranty Letter.



#### **POWERING YOUR LIFE**



		Anna Anna Anna Anna Anna Anna Anna Anna			
Main Parameter			RW-F16		
Battery Chemistry			LiFePO <sub>4</sub>		
Built-in Circuit Breaker			125A 2P, 60Vdc		
Capacity (Ah) [1]			314		
Scalability		Ma	Max. 32 pcs pack ( Max.512kWh ) in parallel		
Nominal Voltage ( V )			51.2		
Operating Voltage ( V )			44.8 ~ 57.6		
Nominal Energy ( kWh ) [2]			16		
Usable Energy ( kWh@90%DOD )			14.4		
Charge / Discharge	Max. Continuous		160 / 160		
Current ( A ) [2]	Peak		300 / 300 ( 10 sec )		
Other Parameter					
Recommend Depth of Disc	charge		90%		
Dimension ( W $\times$ H $\times$ D, n	nm)	48	480 $ imes$ 830 $ imes$ 230 ( Without hanging board )		
Weight Approximate ( kg )			120		
Master LED Indicator			LED ( SOC and working state )		
IP Rating of Enclosure			IP20		
Operating Temperature		Cl	Charge: 0 ~ 55°C / Discharge: -20°C ~ 55°C		
Recommend Operating Te	emperature		15°C ~ 35°C		
Storage Temperature					
Relative Humidity			0.95		
Altitude			≤2000m		
Cycle Life			≥6000 (25°C±2°C, 90%DOD, 70%EOL)		
Installation			Wall-Mounted, Floor-Mounted		
Communication Port			CAN2.0, RS485		
Warranty Period <sup>[3]</sup>			5 years		
Energy Throughput <sup>[3]</sup>			52.5MWh ( 25°C, 0.5C / 0.5C, 70%EOL )		
Certification			UN38.3, MSDS		
<b>Product Expansion</b>			RW-F16		
Battery backup time		2h	2h 3h 4h		
SUN-3.6K-OG01LP1-EU-AN	M2	-			
SUN-5K-OG01LP1-EU-AM2	M2 - 1 unit 2 units			2 units	
SUN-6K-OG01LP1-EU-AM2	UN-6K-OG01LP1-EU-AM2 1 unit 2 units 2 u			2 units	

- [1] Test conditions : 25°C  $\pm$  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.

# OFF-GRID ESS SOLUTION COMBINATION 4

SUN-3.6/5/6K-OG01LP1-EU-AM2 SE-G5.1/SE-G10.2



- LFP Battery : safety, long lifespan and high-energy density - Built-in intelligent BMS, providing complete protection

#### **Enhanced Reliability**

- 5 years warranty
- Wide temperature range: -20 ℃~55 ℃

- Easy to expand, Max. 64 units in parallel (327kWh/655kWh) - Suitable for residential and commercial use

# **Exceptional Performance**

- Support Max. 0.5C continuous charging and discharging Support external power supply activation, prevents battery suspension
- Allow over-discharge direct recharge

#### **POWERING YOUR LIFE**



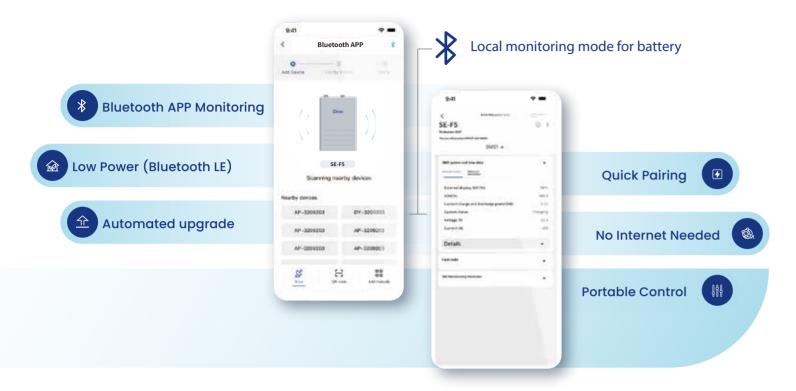
Model		SE-G5.1	SE-G10.2			
Battery Chemistry		LiFe	ePO <sub>4</sub>			
Nominal Capacity <sup>[1]</sup>		100 Ah	200 Ah			
Nominal Voltage		51	2V			
Operating Voltage		44.8 V	~ 57.6 V			
Nominal Energy <sup>[1]</sup>		5.12 kWh	10.24 kWh			
Cell Configuration		1P16S	2P16S			
Scalability <sup>[4]</sup>		Max. 64 pcs pack ( 327kWh ) in parallel	Max. 64 pcs pack ( 655kWh ) in parallel			
Charge Current <sup>[2]</sup>	Max. Continuous	50 A	100 A			
Charge Current	Peak	100 A (10 sec )	200 A(10 sec )			
Dischause Current[7]	Max. Continuous	50 A	100 A			
Discharge Current <sup>[2]</sup>	Peak	100 A (10 sec)	200 A(10 sec )			
Other Parameter						
Recommend Depth of Disc	th of Discharge 80% DoD		DOD			
Dimension ( $W \times D \times H$ , mm )		440 × 540 × 133	710 × 540 × 133			
Weight Approximate		44 kg	85 kg			
Master LED Indicator		5LED (SOC: 20% ~ SOC100%), 3L	5LED (SOC: 20% ~ SOC100%), 3LED (working, alarming, protecting)			
Communication Port		CAN2.0	CAN2.0, RS485			
IP Rating of Enclosure		IP20				
Operating Temperature		Charge : 0 ~ 55°C, Di	Charge: 0 ~ 55°C, Discharge: -20°C ~ 55°C			
Storage Temperature		0 ~	0 ~ 35°C			
Relative Humidity	Humidity 95%		5%			
Altitude		≤20	000 m			
Cycle Life		≥6000 ( 25°C±2°C,	,80%DOD,70%EOL)			
Warranty Period [3]		5 y	ears			
Installation		Wall-Mounted, Floor-Mounted ( Stacked )	, Rack-Mounted ( cabinet depth ≥600mm			
Certification		UN38.	3,MSDS			
<b>Product Expansion</b>		SE-	G5.1			
Battery backup time		2h :	3h 4h			
SUN-3.6K-OG01LP1-EU-AM2		2 units 2 u	units 3 units			
SUN-5K-OG01LP1-EU-AM2		2 units 3 u	units 4 units			
SUN-6K-OG01LP1-EU-AM2		3 units 4 u	units 5 units			
<b>Product Expansion</b>		SE-C	310.2			
Battery backup time		2h	3h 4h			
SUN-3.6K-OG01LP1-EU-AM2		- 1	unit 2 units			
SUN-5K-OG01LP1-EU-AM2		1 unit 2 u	units 2 units			

2 units

3 units

- [1] Test conditions: 25°C±2°C, at beginning of life, 0.2C charge & 0.2C discharge,100% DOD.
- [2] The current is affected by temperature and SOC.
- [3] Conditions apply, refer to Deye Warranty Letter.
- [4] Max. 32 pcs without external CAN-Box.

SUN-6K-OG01LP1-EU-AM2



Remote monitoring mode for ESS(Inverter&Battery)



- Real-time Equipment Monitoring
- Intelligent Charging/Discharging Strategies
- Al Data Analytics
  - **Customized Maintenance**

# **Smarten Up Your Home Energy**

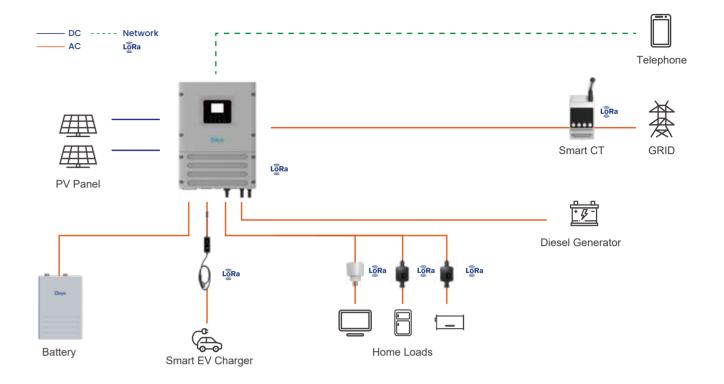




Deye Smart Energy Management System



The Deye Smart Energy Management System enables seamless control with smart CT, smart plug, smart switch and solar EV charging, ensuring efficiency and full compatibility with Deye inverters.



# **Key Features**

#### Wireless Zero Export Control

Enables seamless zero export without the need for complex wiring, simplifying installation.

#### Intelligent Load Control

Automatically manages loads based on time schedules and battery SOC, optimizing energy distribution.

#### Solar-Powered EV Charging

Supports 100% solar charging with dynamic power adjustment for enhanced efficiency and sustainability.

#### • Full Compatibility

All Deye hybrid inverters can be upgraded to support this system, ensuring seamless integration with existing setups.

#### Precise Off-Grid Load Management





Embrace a seamless, effortless energy experience that's both ecofriendly and budget-friendly with our intelligent assistant