



Higher Energy Yield



36A PV Input

2 strings



200% Peak Output

Reliable High-Power Startup



135A Charge/ Discharge Current

Proven Reliability



4ms Ultra-Fast Switching

Seamless Power for Sensitive Loads



97.6% Conversion Efficiency

Low Charge/Discharge Losses



Scalable System

Inverter and Battery Expandable in Parallel



Speed up returns

Greater Affordability Boosts ROI



Smart Energy Management

PV prioritized, surplus stored



Flexible Installation

Battery supports floor-mounted, wall-mounted, or modular stacking



Safe & Reliable

Advanced BMS + Active Fuse Protection



Smart Connectivity

Remote Monitoring & Configuration

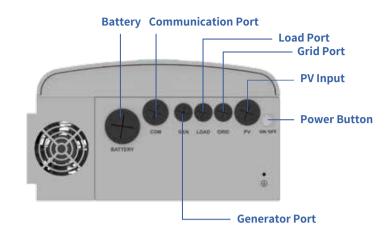
Inverter

SUN-3/3.6/5/6K-OG02LP1-EU



Deve OG Series Off-Grid Inverters

Multiple power options: 3 / 3.6 / 5 / 6 kW SUN-3/3.6/5/6K-OG02LP1-EU



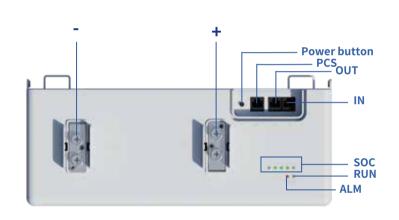
Battery

SE-F5 & SE-F5 Plus & SE-F12 & SE-F16



Deye SE Series High-Performance Energy Storage Batteries

Multiple capacity options: 5 / 12 / 16 kWh
SE-F5 SE-F5 Plus SE-F12 SE-F16



SE-F Series Model Selection & Appearance Reference



SE-F5/F5 Plus/F12/F16





Mounting Example

Stack-Mounted

SE-F5/F5 Plus/F12 support up to 6 packs per cluster (4 packs for SE-F16), allowing parallel connection of multiple clusters

Wall-Mounted

All models support wall-mounted installation, allowing parallel connection of multiple clusters

Wheel-Mounted

Available for SE-F12 & SE-F16







Model	SUN-3K-OG02LP1 -24-EU-AM1	SUN-3K-OG02LP1 -EU-AM1	SUN-3.6K-OG02LP1 -EU-AM1	SUN-5K-OG02LP1 -EU-AM1	SUN-6K-OG02LP -EU-AM1		
Battery Input Data							
Battery Type	Lead-acid or Lithium-ion						
Battery Voltage Range (V)	20-30		40-60				
Max. Charging Current (A)	130	70	90	120	135		
Max. Discharging Current (A)	130	70	90	120	135		
Charging Strategy for Li-ion Battery	Self-adaption 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)	450						
Start-up Voltage (V)	125						
MPPT Voltage Range (V)	150-425						
Rated PV Input Voltage (V)	370						
Max. Operating PV Input Current (A)	36						
Max. Input Short-Circuit Current (A)	54						
AC Output Data							
Rated AC Output Power (VA/W)	300	00	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)	13.1 15.7 21.8 26.1 2 times of rated power, 10s						
Rated Output Voltage (V)	230						
Output Type							
Rated Output Frequency (Hz)							
Output Voltage Waveform							
Total Current Harmonic Distortion THDi	Pure Sine Wave						
AC Input Data (Grid and Generator)			<3%				
Max. Input Power to Battery (W)	20	00	3600	5000	6000		
Rated Input Voltage/Range (V)		00		3000	8000		
Rated Input Frequency (Hz)							
Grid Input Current (A)	50/60						
Generator Input Current (A)	35						
Efficiency			35				
Max. Efficiency			97.6%				
Euro Efficiency	97.6%						
MPPT Efficiency							
Equipment Protection			~ 7 7 7 70				
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc fault circuit interrupter (AFCI) (Optional), Insulation Impedance Detection						
Surge Protection Level	TYPE II(DC), TYPE II(AC)						
Interface			. , ,				
LCD/LED display	LCD						
Communication Interface	WIFI,RS485,CAN						
General Data							
Operating Temperature Range (°C)		-40) to +60°C, >45°C Dera	ting			
Permissible Ambient Humidity	0-100%						
Permissible Altitude	3000m						
Noise (dB)	<46						
Ingress Protection(IP) Rating	IP 65						
Inverter Topology	Non-Isolated						
Over Voltage Category	OVC III(DC), OVC III(AC)						
Cabinet Size (WxHxD mm)	306×427.5×175.8 (Excluding Connectors and Brackets)						
Weight (kg)	9.3						
Type of Cooling	Intelligent Air Cooling						
Warranty			rd 5 years, extended w				
Safety / EMC Standard			0-6-1,EN61000-6-2,EN		1 4 1		



SE-F Series Doyo Doyo SE-F5 & SE-F5 Plus SE-F12 SE-F16

Model		SE-F5	SE-F5 Plus	SE-F12	SE-F16		
Main Parameters							
Battery Chemistry		LiFePO ₄					
Capacity		100 Ah		230 Ah	314 Ah		
Scalability [1]		Max. 32 pcs in parallel					
Nominal Voltage		51.2 V					
Operating Voltage		44.8 V ~ 57.6 V					
Nominal Energy		5.1	2 kWh	11.8 kWh	16 kWh		
Charge Current [2]	Max. Continuous	100 A		230 A	160 A		
	Peak	120 A (10 sec)		280 A (10 sec)			
Discharge Current [2]	Max. Continuous	120 A		230 A			
	Peak	150 A (10 sec)		280 A (10 sec)			
Other Parameter							
Recommend Depth of Discharge		80% DoD	90% DoD				
Dimension ($W \times H \times D$) (Without hanging board)		$370 \times 548 \times 140 \mathrm{mm}$		400 × 559 × 233 mm	400 × 708 × 233 mm		
Weight Approximate		4	1 kg	84 kg	109 kg		
LED Indicator		LED (SOC, working, protecting) & Buzzer					
IP Rating of Enclosure		IP21					
Operating Temperature		Charge: 0∼55°C / Discharge: -20∼55°C	Charge: -10∼55°C / Discharge: -20∼55°C	Charge: 0∼55°C / D	ischarge: -20∼55°C		
Storage Temperature		0~35°C					
Relative Humidity	ve Humidity 95% (non-condensing)						
Altitude		≤3000m					
Cycle Life		≥6000(25°C±2°C,70%EOL)					
Installation		Wall-Mounted, Floor-Mounted, Stack-Mounted					
Communication		CAN2.0, RS485, Bluetooth+APP					
Warranty Period [3]		5 years	irs 10 years 5 years / 10 years (ext		extended warranty)		
Energy Throughput [3]		8 MWh	16 MWh	18 MWh	25 MWh		
Certification		UN38.3, MSDS, CE, CB					

^[1] Max. 64 pcs can parallel with CAN-Box.

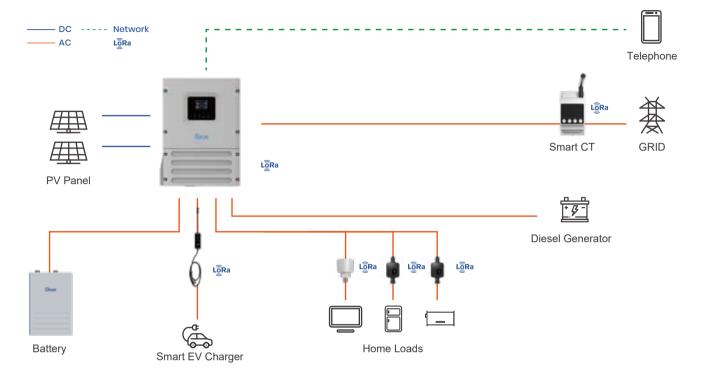
^[2] Operating current is affected by temperature and SOC. This max. continuous current is only supported in lithium battery mode; for lead-acid mode, please refer to the manual for the max. continuous current.

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



Deye Smart Energy Management System(Optional)

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.

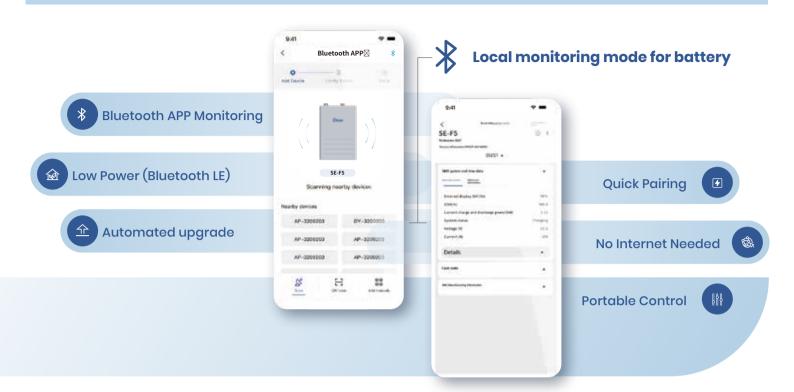
Full Compatibility

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

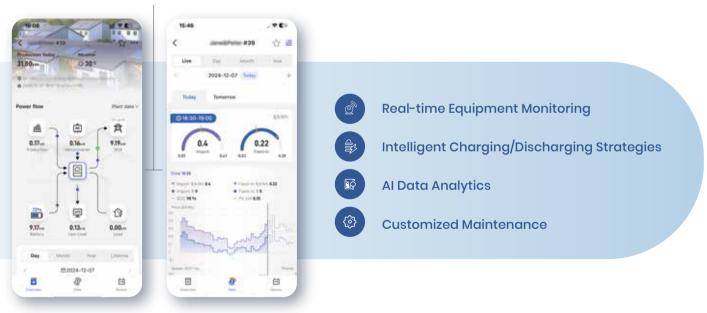




Deye APP



Remote monitoring mode for ESS(Inverter&Battery)



Smarten Up Your Home Energy



