SOFAR

ENERGY TO POWER YOUR LIFE

PRODUCT *catalogue*

Shenzhen SOFARSOLAR Co., Ltd.

SOFAR INTRODUCTION

SOFAR is a global leading provider of all-scenario solar PV and energy storage solutions and committed to be the leader of digital energy solutions. SOFAR supports the transition to renewable energy through a comprehensive portfolio including PV inverters range from 1 kW to 350 kW, hybrid inverters range from 3 kW to 125 kW, energy storage systems, C&I and utility BESS solutions, and SOFARCloud for residential, commercial & industrial, and utility-scale applications.

Since its establishment in 2013, SOFAR has been committed to building competitive advantages in products, technology, market and service on a global scale. It has established three R&D centers worldwide and further strengthened its independent innovation capabilities. Meanwhile, SOFAR has built two global manufacturing bases with 16 inverter production lines and 4 battery production lines. In 2023, the annual production capacity of PV and energy storage equipment exceeded 14 GW, while battery production capacity exceeded 1.0 GWh. SOFAR has always insisted on globalization thinking and localization action. Its products are supplied globally and sold in batches to more than 100 countries and regions. The company has also established localized service platforms in over 20 countries and regions, including Australia, Poland, Germany, South Korea, Pakistan, and the United Kingdom. As of the first half of 2025, SOFAR had shipped over 42 GW of inverters globally. On April 2, 2025, the company was officially listed on the ChiNext Board of the Shenzhen Stock Exchange, with stock code 301658.

From 2020 to 2022, the company achieved leapfrog growth in business performance, with a compound annual growth rate exceeding 100%. SOFAR has always insisted on creating value for customers through technological innovation. It has successively obtained China's CQC certification, become one of China's TOP 5 PV inverter brands and one of the TOP 5 global energy storage inverter brands, and has been recognized by EuPD as a Top PV Inverter Brand in India, Poland, Australia, the United Kingdom, Italy and Brazil. In 2025, SOFAR was awarded both the "Green Factory" and "Green Supply Chain Management Enterprise" certifications in Guangdong Province, further enhancing its comprehensive strength in green manufacturing and sustainable development.

In the future, SOFAR will uphold its corporate mission of "technology changing the energy structure" and its core values of "Morality as Priority and Perseverance for Success". It will continue to build core competitiveness through independent innovation in the zero-carbon era, and promote the global energy transition with its leading full range of solar PV and energy storage products and solutions.

SF-5KWH-L1

Low voltage battery



Ultimate safety

- Lithium iron phosphate (LFP) cell
- Built-in BMS, full protection from cell to modules

Flexible capacity

- Module design
- up to 16 units in parallel (Max. 81kWh)

Easy installation & Maintenance

- 19-Inch standard desgin
- Automatic communication networking
- Supports rack-mounted, wall-mounted and floor-mounted installations

www.sofarsolar.com

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Model	SF-5KWH-L1
System Parameters	
Battery type	$LiFePO_4$- lithium iron phosphate battery
Total energy	5120 Wh
Rated voltage	51.2V
Operating voltage range	44.8V~57.6V
Rated charging/discharging power	2560W/2560W
Rated charging/discharging current	50A/50A
Max.charging/discharging current	50A/100A
Depth of Discharge	90%
Max.Parallel Quantity	16 pcs
General Parameters	
Communication	CAN/RS485
Dimension (W×H×D)	442×132×590mm
Weight	45kg
Protection rating	IP20
Cooling	Natural
Operating temperature	Charge: 0℃ ~ +55℃ / Discharge: -20℃ ~ +60℃
Humidity	5%~95%
Installation	Wall Mounted / Floor Mounted / Rack Mounted (19-inch standard cabinet, cabinet depth ≥ 600mm)
Max.operating altitude	4000m
Cycle life [1]	≥6000 cycles

[1] Test conditions: 0.2C charging/discharging at 25℃, 90%DOD.

*All specifications are subject to change without notice.

INSTALLATION EXAMPLE



Wall-Mounted



Floor-Mounted



Rack-Mounted

SF-16KWH-L1

16 kWh

Low voltage battery



We've GOT YOU COVERED with CGL insurance.

High power

- Lithium iron phosphate(LFP) cell
- Up to 10 kW continuous output

Flexible capacity

- Module design
- Up to 16 units in parallel(Max. 256kWh)

Easy installation & Maintenance

- 500kg-rated casters, easy movement
- Auto neworking for battery
- Remote monitoring & OTA via SOFAR inverter

Ultimate safety

- Built-in intelligent BMS, full protection from cell to modules

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Model	SF-16KWH-L1
System Parameters	
Battery type	$LiFePO_4$ - lithium iron phosphate battery
Total energy	16kWh
Rated voltage	51.2V
Operating voltage range	44.8V~57.6V
Rated charging/discharging power	7.5kW/7.5kW
Rated charging/discharging current	150A/150A
Max.charging/discharging current	150A/200A
Depth of Discharge	90%
Max.Parallel Quantity	16 pcs
General Parameters	
Communication	CAN/RS485
Dimension (W×H×D)	425×235×860mm
Weight	115kg
Protection rating	IP20
Cooling	Natural
Operating temperature	Charge: 0˚C ~ +55˚C / Discharge: -20˚C ~ +60˚C
Humidity	5%~95%
Installation	Floor Mounted / Wall Mounted
Max.operating altitude	4000m
Warranty	10 years
Cycle life [1]	8000 cycles

[1] Test conditions: 0.2C charging/discharging at 25˚C, 90%DOD.

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Installation Example



Floor-Mounted



Wall-Mounted

SF-16KWH-L1

16 kWh

Low voltage battery



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Battery type	$LiFePO_4$ - lithium iron phosphate battery
Total energy	16 kWh
Rated voltage	51.2 V
Operating voltage range	44.8-57.6 V
Rated charging/discharging power	7.5 kW/7.5 kW
Rated charging/discharging current	150 A/150 A
Max.charging/discharging current	150 A/200 A
Max.Parallel Quantity	16 pcs
General Parameters	
Communication	CAN
Dimension (W*H*D)	425*235*860mm
Weight	115 kg
Protection rating	IP20
Cooling	Natural
Operating temperature	Charge: 0˚C ~ +55˚C / Discharge: -20˚C ~ +60˚C
Humidity	5%-95%
Installation	Floor Mounted / Wall Mounted
Max.operating altitude	4000 m

*All specifications are subject to change without notice.

CBS5000-H4-H12

20/ 25 / 30 / 35 / 40 / 45 / 50 / 55 / 60 kWh

Smart battery



- SOFAR Battery control unit
- SOFAR Battery

We've GOT YOU COVERED with CGL insurance.

Flexible capacity

- Modular design, scalable 4-12 packs per series
- Up to 4 racks in parallel (Max. 240kWh)

High power

- Integrated built-in optimizer, one cluster on management
- Active module balancing

Easy installation

- Stack design
- No cable connections required between module

Safe & Reliable

- Multi-level battery safety protection
- IP66 protect rating

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Model	CBS5000-H4	CBS5000-H5	CBS5000-H6	CBS5000-H7	CBS5000-H8	CBS5000-H9	CBS5000-H10	CBS5000-H11	CBS5000-H12
System Parameters									
System Schematic									
Battery Distribution Unit	CBS5000-BCU								
Number of Battery Distribution Unit	1								
Battery Module	CBS5000-BMU								
Number of Battery Modules	4	5	6	7	8	9	10	11	12
Battery Total Energy [1]	20.48kWh	25.6kWh	30.72kWh	35.84kWh	40.96kWh	46.08kWh	51.2kWh	56.32kWh	61.44kWh
Rated Power	10kW	12.5kW	15kW	17.5kW	20kW	22.5kW	25kW	27.5kW	30kW
Peak Output Power	20 kW, 10 s	25 kW, 10 s	30 kW, 10 s	35 kW, 10 s	40 kW, 10 s	45 kW, 10 s	50 kW, 10 s	55 kW, 10 s	60 kW, 10 s
Nominal Voltage	600 Vd.c								
Operating Voltage Range	600-1000 Vd.c								
Max. Charging Current	50A								
Max. Discharging Current	50A								
General Parameters									
Display	LED								
Communication	CAN								
Dimensions (W×H×D)	625×870×415 mm	625×1020×415 mm	625×1170×415 mm	625×1320×415 mm	625×1470×415 mm	625×1620×415 mm	625×1770×415 mm	625×1920×415 mm	625×2070×415 mm
Weight	210kg	257kg	304kg	351kg	398kg	445kg	492kg	539kg	586kg
IP Rating	IP66								
Cooling Mode	Intelligent Airflow								
Operating Temperature Range [2]	-20˚C ~ +50˚C								
Humidity	5%-95%								
Installation	Floor Mounted								
Battery Type	$LiFePO_4$ - lithium iron phosphate battery								
Max. Operating Altitude [3]	4000m								
Scalability	Max. 4 systems in parallel operation								
Ordering and Deliverable Part									
Available for ordering [4]	CBS5000-BMU, CBS5000-BCU								

[1] Test conditions: 0.2C charging/discharging at 25˚C, 100%DOD.
[2] Refer to the curve of temperature VS charging/discharging current.
[3] Derating above 2000m.
[4] Storage system is ordered and delivered in the form of power module and battery module separately with corresponding quantity.

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