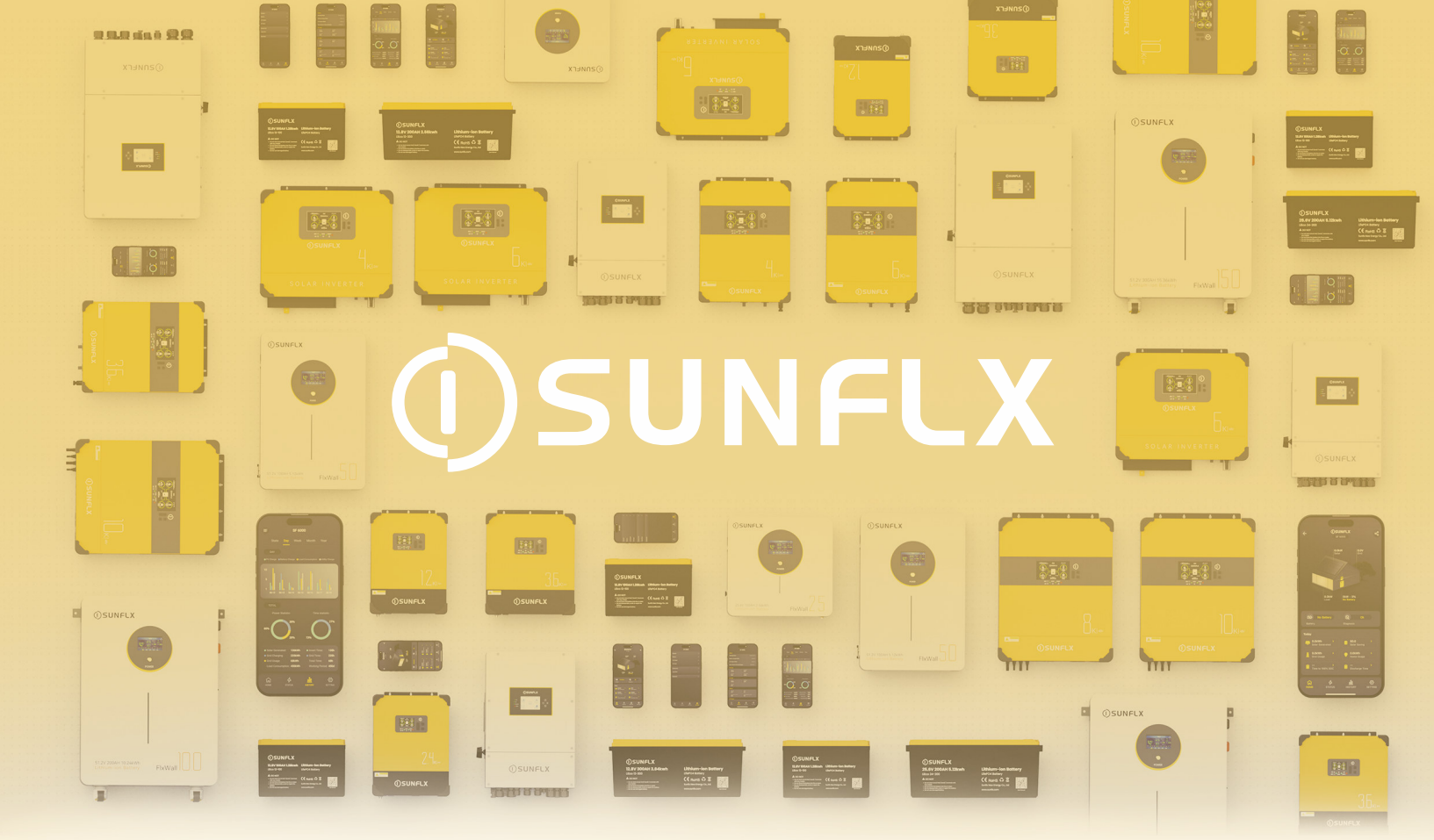


2026-2027
Global Edition

PRODUCT CATALOG

MADE STRONG
SUNFLX POWER LONG

Solar Storage Inverter | Lithium-ion Battery | Solar Charge Controller

ABOUT SUNFLX

A Worldwide Residential Solar Storage Inverter & Lithium Battery Manufacturer

Sunflx is headquartered in Guangzhou, China, with a marketing branch in Chengdu and an R&D and manufacturing base in Foshan. Our product range includes solar inverters, Lithium batteries, solar charge controllers and intelligent monitoring solutions.

With a team of dedicated hardware and software engineers, Sunflx continually pushing the boundaries of technology. Engineers make up 80% of our office staff, enabling us to lead in innovation. By 2023, Sunflx had secured over 30 patents and earned recognition as a "National High-Tech Enterprise".

At Sunflx, we never push components to their absolute maximum electrical performance. Our extensive experience has shown that operating components at 80% of their capacity ensure optimal efficiency and longevity. This principle has set Sunflx inverters apart from competitors, consistently demonstrating durability among end users for the past decade.

Core Value at Sunflx

1. Simplified Customization

If you run a reputable brand in solar industry, Sunflx engineer will assist you to develop up-to-date featured products, turn your idea into a real unique product. Ensure you always to be a cutting-edge brand.

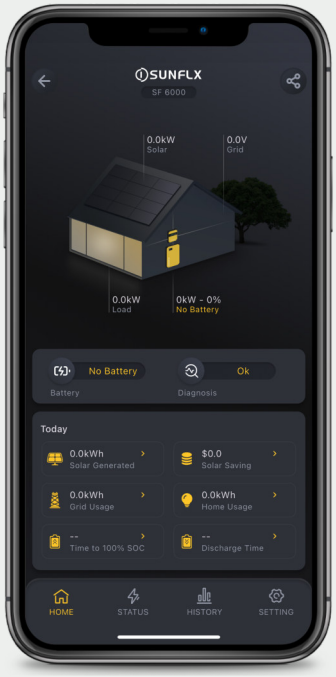
2.Grow together with our distributors

If you have a good distribution network, Sunflx's superior quality and high consistency products will solve all your problems on the supply end, we can do Collaborating Marketing and let us turn leads into orders!



SUNFLX POWER LONG

Anytime Anywhere !





Sunflx Cloud App

Download on the App Store

GET IT ON Google Play

Sunflx Cloud App is a Configure and Monitor App Now Available in App Store and Google Play

Work with Sunflx Smart Dongle, supports both Bluetooth and Wi-Fi connection, which enables you managing your solar device with or without internet connection.

Key Features

- **Real-Time Monitoring**
  Keep an eye on your solar equipment's live performance and system status.
- **Easy Settings**
  Personalize your device settings to get the best out of your system.
- **Demo Devices**
  Check out the demo library to explore Sunflx features and see what the products can do.
- **Historical Data**
  View past data like power generation, energy use, and grid consumption to assess your system's performance.
- **Firmware Updates**
  Update your device firmware with just one tap to stay up to date with the latest features.
- **Status Sharing**
  Share your solar power achievements and savings with friends and spread the green lifestyle.
- **Product Verification**
  Verify your products quickly to ensure they're genuine with Sunflx Cloud.

CONTENT



On/Off Grid Solar Storage Inverter

- SF 1200 SE/2400 SE/3600 SE ····· 07
- SF 4000 SE /6000 SE ····· 09
- SF 4000/6000 ····· 11
- SF 8000/10000 ····· 13



On/Off Grid Solar Storage Inverter

- SG 4200/6000 ····· 15
- SG 4200/6000 Pro ····· 17



Hybrid Solar Storage Inverter

- **Single Phase**
  - SH-S6K ····· 20
  - SH-S8K ····· 22
  - SH-S10K/S12K ····· 24
- **Three Phase**
  - SH-T8K/T10K/T12K ····· 26
  - SH-T15K/T20K ····· 28

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Lithium-ion Battery

- FlxWall 2.5/5.0 ····· 30
- FlxWall 10.0/15.0/16.0 ····· 32
- FlxStation 20.0/25.0/30.0/32.0 ····· 34
- FlxRack 5.0/10.0 ····· 36
- LiEco12-100/12-200/12-300 /24-100/24-200 ····· 38



DC-AC Power Inverter

- Vital 1500/2000/3000/4000/5000 ····· 40
- Vital Pro 1500/2000/3000/4000 UPS ····· 42

Quick Selection Guide

On/Off Grid Solar Storage Inverter

IP21 1.2-10kW IP54 4.2-6kW

SF 1200/2000/2400/3600 SE

IP21 Single Phase



- 12V / 24V
- 30V PV start voltage
- Dust-proof filter
- Built-in MPPT solar charger

SF 4000/6000 SE

IP21 Single Phase



- 24V / 48V
- Dual AC outputs
- Plug-and-play MC4 terminals
- PV and AC dual activation

SF 4000/6000

IP21 Single Phase



- 24V / 48V
- Dual AC outputs
- Plug-and-play MC4 terminals
- PV and AC dual activation

SF 8000/10000

IP21 Single Phase



- Dual MPPT trackers
- Dual AC outputs
- Plug-and-play MC4 terminals
- PV and AC dual activation

SG 4200/6000

IP54 Single Phase



- Built-in CT
- Dual AC outputs
- Plug-and-play MC4 terminals
- PV and AC dual activation

IP21 Quick Selection Guide

Product	Output		Battery		Solar Panel			Output Mode			Input
Model	Output Power	Parallel Units	Battery Voltage	Max. Hybrid Charging	Open Circuit Voltage	Max. PV Array Power	MPPT Input Current	Off Grid	Work Without Battery	Hybrid	Generator
SF 1200 SE	1.2kW	/	12Vdc	100A	450Vdc	2000W	1*18A	√	√	/	/
SF 2000 SE	2kW		12Vdc	100A		3200W	1*18A				
SF 2400 SE	2.4kW		24Vdc	100A		3800W	1*18A				
SF 3600 SE	3.6kW		24Vdc	100A		5800W	1*18A				
SF 4000 SE	4kW		24Vdc	120A	500Vdc+500Vdc	8000W	2*22A	√	√	/	√ (Extra ATS required)
SF 6000 SE	6kW		48Vdc	120A		10000W	2*22A				
SF 4000	4kW		24Vdc	120A	500Vdc	6000W	1*22A				
SF 6000	6kW		48Vdc	120A		7500W	1*27A				
SF 8000	8.2kW		48Vdc	150A	500Vdc+500Vdc	12000W	2*22A				
SF 10000	10kW		48Vdc	150A		12000W	2*22A				

IP54 Quick Selection Guide

SG 4200	4.2kW	/	24Vdc	120A	500Vdc	6000W	1*22A	√	√	/	√
SG 6000	6kW		48Vdc			8000W	1*32A				

Quick Selection Guide

Hybrid Solar Storage Inverter

IP65 6-20kW

SH-S6K/S8K

IP65 Single Phase



- 2 MPPT trackers with 18A/26A string current
- Dual AC outputs for smart load management
- Multiple working modes: TOU, Max.self-consumption, zero export, fully feed to grid

SH-S10K/S12K

IP65 Single Phase



- 3 MPPT trackers with 26A string current
- Dual AC outputs for smart load management
- Multiple working modes: TOU, Max. self-consumption, zero export, fully feed to grid

SH-T8K/T10K/T12K

IP65 Three Phase



- 2 MPPT trackers with 26A string current
- Dual AC outputs for smart load management
- Three-phase unbalanced load output capability
- Multiple working modes

SH-T15K/T20K

IP65 Three Phase



- 2 MPPT trackers with 36A string current
- Dual AC outputs for smart load management
- Three-phase unbalanced load output capability
- Multiple working modes

IP65 Quick Selection Guide

Product	Output			Battery		Solar Panel			Output Mode		
Model	Output Power	Output Phase	Parallel Units	Battery Voltage	Max. Hybrid Charging	Max. Open Circuit Voltage	Max. PV Array Power	MPPT Input Current	Off-Grid	Work Without Battery	Hybrid
SH-S6K	6kW	Single phase or three phase when in parallel	16 Units	48Vdc	135A	500Vdc+500Vdc	9600W	2*18A	√	√	√
SH-S8K	8kW				190A	500Vdc+500Vdc	12800W	2*26A			
SH-S10K	10kW				220A	500Vdc+500Vdc+500Vdc	16000W	3*26A			
SH-S12K	12kW				250A	500Vdc+500Vdc+500Vdc	19200W	3*26A			
SH-T8K	8kW	Three phase	10 Units	48Vdc	190A	800Vdc+800Vdc	12800W	2*20A	√	√	√
SH-T10K	10kW				210A		16000W	2*26A			
SH-T12K	12kW				240A		19200W	2*26A			
SH-T15K	15kW				280A		24000W	2*36A			
SH-T20K	20kW				350A		32000W	2*36A			

On/Off Grid Solar Storage Inverter

IP21 | Single Phase



SF 1200/2000/2400/3600 SE

The Sunflx SF-SE Series on/off grid solar storage inverter is a combination of high frequency inverter, AC charger and high efficiency MPPT solar controller.

It is an ideal solution for areas without a stable power grid. Built-in dustproof filter for harsh conditions, it offers an easy installation that helps reduce costs. With a 1.2-3.6kw power range, it's well-suited for small households, covering essential emergency power needs.



1.AC Input 2.AC Output 3.PV Input

4.Input Breaker 5.Battery

- Built-in MPPT solar charger
- Compatible with lithium, lead-acid and GEL batteries
- 30V low inverter start voltage, work with 1 pcs solar panel
- Multi-customized modes for diverse scenarios
- Optional WFI & Bluetooth monitoring
- Equalization charging function
- Feed into grid (Optional)
- Dust-proof filter for harsh environment
- Cost-effective with most stable quality
- Working without battery
- USB One-Key to upgrade firmware (Optional)
- BMS function (Optional)

SUNFLX

Model	SF 1200 SE	SF 2000 SE	SF 2400 SE	SF 3600 SE	User-Settable
Nominal Battery Voltage	12Vdc	12Vdc	24Vdc	24Vdc	
Battery Type	Lithium LiFePO4/Lead-Acid/Flooded/User Defined				√
AC INPUT					
Nominal AC Input Voltage / Waveform	230Vac/Sinusoidal (Utility or Generator)				
AC Input Range	90~280Vac (Appliances);170Vac~280Vac(UPS)				√
Nominal Input Frequency	50/60Hz (Auto Detection)				√
AC Input Frequency Range	40~65±1Hz (>42 or <63±1Hz Comeback)				
Max. Bypass Current	16Amp	16Amp	20Amp	30Amp	
Output Short Circuit Protection	Circuit Breaker				
Transfer Time	10ms Typical (UPS); 20ms Typical (Appliances)				
AC CHARGER					
Charging Algorithm	3-Step				
Max. AC Charging Current	80Amp				√
Bulk Charging Voltage	14.6Vdc (AGM/Gel) 14.1Vdc (Flooded)		29.2Vdc (AGM/Gel) 28.2Vdc (Flooded)		√
Floating Charging Voltage	13.5Vdc		27Vdc		√
Max. Hybrid Charging Current (Solar & Utility)	100Amp				√
PV INPUT					
Num.of Independent MPPT Tracker	1				
MPPT Input Current	1*18Amp				
Max. PV Array Power	2000W	3000W	3800W	5800W	
Max. Solar Charge Current	100Amp				√
PV Array MPPT Voltage Range	30~400Vdc				
Max. PV Array Open Circuit Voltage	450Vdc				
MPPT Tracking Efficiency	99.9%				
INVERTER OUTPUT					
Num. of Output Ports	1				
Rated Output Power	1200W	2000W	2400W	3600W	
Max. Output Current	5.2A	8.6A	10.4A	15.7A	
Surge Capacity	2.4KVA/2.4KW for 5 Seconds	4KVA/4KW for 5 Seconds	4.8KVA/4.8KW for 5 Seconds	7.2KVA/7.2KW for 5 Seconds	
Output Voltage Waveform	Pure Sine Wave				
Overload Protection	5s@150% Load; 10s@110%~150% Load				
Output Voltage	220/230/240 Vac ± 5%				
Output Frequency	50/60Hz ±1 Hz				
Peak Efficiency	92%		93%	94%	
Low Voltage Cut-off Voltage	10.5Vdc		21.0Vdc		√
High Voltage Cut-off Voltage	16.0Vdc		33.0Vdc		
Cold Start Voltage (When Only Connect with Battery)	11.5Vdc		23.0Vdc		
No Load Power Consumption	<25W@12Vdc		<35W@24Vdc		
GENERAL					
Embedded Interface	RS232*1				
Operating Temperature Range	-10°C~55°C				
Noise	≤ 60dB				
Protection Degree	IP21, Indoor Only				
Cooling Method	Intelligent Fan				
Net Dimension (H*W*D)	395*285*110 mm	395*285*110 mm	395*285*110 mm	395*335*108 mm	
Net Weight	5.7 KG	6.1 KG	6.1 KG	7.3 KG	
Warranty	2 Years				
Certification / Standard	CE (IEC61000,IEC62109); IEC61683; IEC60068; RoHS				

On/Off Grid Solar Storage Inverter

IP21 | Single Phase



SF 4000 SE/6000 SE

The Sunflx SF 4000 SE/6000 SE Series on/off grid solar storage inverter is a combination of high frequency inverter, AC charger and high efficiency MPPT solar controller.

It is perfect for medium households and rural areas with limited power. It offers high conversion efficiency for a stable power supply and features multiple protections for safety. It delivers Max. 6kW of power and works with most main brands of 48V/51.2V lithium batteries.

Its user-friendly interface simplifies installation and maintenance, while the smart monitoring app enables real-time energy tracking, reducing electricity costs and providing clean energy for off grid needs.



1.AC Input 2.Main Output 3.Second Output

4.PV1 Terminal 5.PV2 Terminal 6.AC Breaker

7.WIFI Connection 8.BMS Port 9.Dry Contact

10.Battery Terminal 11.ON/OFF

- Two MPPTs, max. string current 22A, max. solar input 10kW
- Dual AC outputs for smart load management
- Wide PV input voltage range 60Vdc-500Vdc
- Compatible with lithium, lead-acid and GEL batteries
- PV and AC dual activation
- Feed into grid (Optional)
- Optional Bluetooth monitoring (APP available)
- Multi-customized modes for diverse scenarios
- Dust-proof filter for harsh environment
- Working without battery
- USB One-Key to upgrade firmware (Optional)

Model	SF 4000 SE	SF 6000 SE	User-Settable
Nominal Battery Voltage	24Vdc	48Vdc	
Battery Type	Lithium LiFePO4/Lead-Acid/Flooded/User Defined		√
AC INPUT			
Nominal AC Input Voltage / Waveform	230Vac/Sinusoidal (Utility or Generator)		
AC Input Range	90~280Vac (Appliances); 170Vac~280Vac (UPS)		√
Nominal Input Frequency	50/60Hz (Auto Detection)		√
AC Input Frequency Range	40~65±1Hz; (>42 or <63±1Hz Comeback)		
Max. Bypass Current	30Amp	40Amp	
Output Short Circuit Protection	Circuit Breaker		
Transfer Time	10ms Typical (UPS); 20ms Typical (Appliances)		
AC CHARGER			
Charging Algorithm	3-Step		
Max. AC Charging Current	100Amp (@V/P=230Vac)		√
Bulk Charging Voltage	29.2Vdc (AGM/Gel); 28.2Vdc (Flooded)	56.4Vdc (AGM/Gel); 58.4Vdc (Flooded)	√
Floating Charging Voltage	27Vdc	54Vdc	√
Max. Hybrid Charging Current (Solar & Utility)	120Amp		√
PV INPUT			
Num.of Independent MPPT Tracker	2		
MPPT Input Current	2*22Amp		
Max. PV Array Power	2*4000W	2*5000W	
Max. Solar Charge Current	120Amp		√
PV Array MPPT Voltage Range	60~500Vdc		
Max. PV Array Open Circuit Voltage	500Vdc		
MPPT Tracking Efficiency	99.9%		
INVERTER OUTPUT			
Num. of Output Ports (Main & Second Output)	2		
Rated Output Power of Main / Second Output	4000W/4000W	6000W/6000W	
Max. Output Current of Main / Second Output	17.4A/17.4A	26.1A/26.1A	
Surge Capacity	8KVA/8KW for 5 Seconds	12KVA/12KW for 5 Seconds	
Output Voltage Waveform	Pure Sine Wave		
Overload Protection	5s@150% Load; 10s@110%~150% Load		
Output Voltage	220/230/240Vac±5%		
Output Frequency	50/60Hz±1Hz		
Peak Efficiency	94%		
Low Voltage Cut-off Voltage	21.0Vdc	42.0Vdc	√
High Voltage Cut-off Voltage	33.0Vdc	63.0Vdc	
Cold Start Voltage (When Only Connect with Battery)	23.0Vdc	46.0Vdc	
No Load Power Consumption	<35W@24Vdc	<45W@48Vdc	
GENERAL			
Work with WIFI & BluetoothMonitoring Dongle	YES, by RS232		
Work with Lithium Battery BMS	YES, by RS485		
Operating Temperature Range	-10°C~50°C		
Noise	≤ 60dB		
Protection Degree	IP21, Indoor Only		
Cooling Method	Intelligent Fan		
Net Dimension (H*W*D)	510*340*120 mm		
Net Weight	10 KG	11 KG	
Warranty	2 Years		
Certification / Standard	CE (IEC61000,IEC62109); IEC61683; IEC60068; RoHS		

On/Off Grid Solar Storage Inverter

IP21 | Single Phase

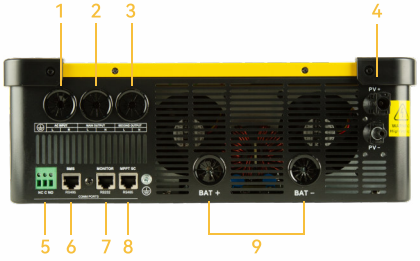


SF 4000/ SF 6000

The Sunflx SF 4000/6000 Series on/off grid solar storage inverter is a combination of high frequency inverter, AC charger and high efficiency MPPT solar controller.

It is perfect for medium households and rural areas with limited power. It offers high conversion efficiency for a stable power supply and features multiple protections for safety. It delivers Max. 6kW of power and works with most main brands of 48V/51.2V lithium batteries.

Its user-friendly interface simplifies installation and maintenance, while the smart monitoring app enables real-time energy tracking, reducing electricity costs and providing clean energy for off grid needs.



1.AC Input 2.Main Output 3.Second Output

4.PV Terminal 5.Dry Contact 6.BMS Port

7.WIFI Connection 8.Solar Controller Connection

9.Battery Terminal

- Dual AC outputs for smart load management
- Wide PV input voltage range 60Vdc-500Vdc
- Compatible with lithium, lead-acid and GEL batteries
- PV and AC dual activation
- Support generator input (Extra ATS required)
- Feed into grid (Optional)
- Plug-and-play quick connection MC4 PV terminals
- WIFI & Bluetooth monitoring (APP available)
- Multi-customized modes for diverse scenarios
- Dust-proof filter for harsh environment
- USB One-Key to upgrade firmware (Optional)

Model	SF 4000	SF 6000	User-Settable
Nominal Battery Voltage	24Vdc	48Vdc	
Battery Type	Lithium LiFePO4/Lead-Acid/Flooded/User Defined		√
AC INPUT			
Nominal AC Input Voltage / Waveform	230Vac/Sinusoidal (Utility or Generator)		
AC Input Range	90~280Vac (Appliances); 170Vac~280Vac (UPS)		√
Nominal Input Frequency	50/60Hz (Auto Detection)		√
AC Input Frequency Range	40~65±1Hz; (>42 or <63±1Hz Comeback)		
Max. Bypass Current	40Amp		
Output Short Circuit Protection	Circuit Breaker		
Transfer Time	10ms Typical (UPS); 20ms Typical (Appliances)		
AC CHARGER			
Charging Algorithm	3-Step		
Max. AC Charging Current	100Amp (@V/P=230Vac)		√
Bulk Charging Voltage	29.2Vdc (AGM/Gel); 28.2Vdc (Flooded)	56.4Vdc (AGM/Gel); 58.4Vdc (Flooded)	√
Floating Charging Voltage	27Vdc	54Vdc	√
Max. Hybrid Charging Current (Solar & Utility)	120Amp		√
PV INPUT			
Num.of Independent MPPT Tracker	1		
MPPT Input Current	1*22Amp	1*27Amp	
Max. PV Array Power	6000W	7500W	
Max. Solar Charge Current	120Amp		√
PV Array MPPT Voltage Range	60~450Vdc		
Max. PV Array Open Circuit Voltage	500Vdc		
MPPT Tracking Efficiency	99.9%		
INVERTER OUTPUT			
Num. of Output Ports (Main & Second Output)	2		
Rated Output Power of Main / Second Output	4000W/4000W	6000W/6000W	
Max. Output Current of Main / Second Output	17.4A/17.4A	26.1A/26.1A	
Surge Capacity	8KVA/8KW for 5 Seconds	12KVA/12KW for 5 Seconds	
Output Voltage Waveform	Pure Sine Wave		
Overload Protection	5s@150% Load; 10s@110%~150% Load		
Output Voltage	220/230/240Vac±5%		
Output Frequency	50/60Hz±1Hz		
Peak Efficiency	94%		
Low Voltage Cut-off Voltage	21.0Vdc	42Vdc	√
High Voltage Cut-off Voltage	33.0Vdc	63Vdc	
Cold Start Voltage (When Only Connect with Battery)	23.0Vdc	46.0Vdc	
No Load Power Consumption	<35W@24Vdc	<45W@48Vdc	
GENERAL			
Embedded Interface	RS232*1/RS485*2/Dry Contact		
Operating Temperature Range	-10°C~55°C		
Noise	≤ 60dB		
Protection Degree	IP21, Indoor Only		
Cooling Method	Intelligent Fan		
Net Dimension (H*W*D)	510*340*120 mm		
Net Weight	11KG	12 KG	
Warranty	2 Years		
Certification / Standard	CE (IEC61000,IEC62109); IEC61683; IEC60068; RoHS		

On/Off Grid Solar Storage Inverter

IP21 | Single Phase



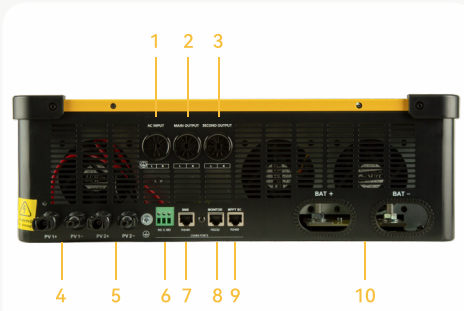
SF 8000/ SF 10000

The Sunflx SF 8000/1000 Series on/off grid solar storage inverter is a combination of high frequency inverter, AC charger and high efficiency MPPT solar controller.

It is perfect for large households and rural areas with insufficient power.

It ensures stable and sufficient power supply with high conversion efficiency and multiple safety features. It delivers Max. 10kW of power and works with most main brands of 48V/51.2V lithium battery.

The user-friendly interface simplifies installation and maintenance, while the smart monitoring app tracks energy usage in real time, reducing costs and providing clean energy for off grid needs.



1.AC Input 2.Main Output 3.Second Output

4.PV1 Terminal 5.PV2 Terminal 6.Dry Contact

7.BMS Port 8.WIFI Connection

9.Solar Controller Connection 10.Battery Terminal

- Two MPPTs, max. string current 22A , max. solar input 12kW
- Dual AC outputs for smart load management
- Wide PV input voltage range 60Vdc-500Vdc
- Compatible with lithium, lead-acid and GEL batteries
- Support generator input (Extra ATS required)
- Feed into grid (Optional)
- Plug-and-play quick connection MC4 PV terminals
- PV and AC dual activation
- Multi-customized modes for diverse scenarios
- Dust-proof filter for harsh environment
- WIFI & Bluetooth monitoring (APP available)
- USB One-Key to upgrade firmware (Optional)

SUNFLX

Model	SF 8000	SF 10000	User-Settable
Nominal Battery Voltage	48Vdc		
Battery Type	Lithium LiFePO4/Lead-Acid/Flooded/User Defined		√
AC INPUT			
Nominal AC Input Voltage / Waveform	230Vac/Sinusoidal (Utility or Generator)		
AC Input Range	90~280Vac (Appliances); 170Vac~280Vac (UPS)		√
Nominal Input Frequency	50/60Hz (Auto Detection)		√
AC Input Frequency Range	40~65±1Hz; (>42 or <63±1Hz Comeback)		
Max. Bypass Current	60Amp		
Output Short Circuit Protection	Circuit Breaker		
Transfer Time	15ms Typical (UPS); 25ms Typical (Appliances)		
AC CHARGER			
Charging Algorithm	3-Step		
Max. AC Charging Current	120Amp (@V/P=230Vac)		√
Bulk Charging Voltage	56.4Vdc (AGM/Gel); 58.4Vdc (Flooded)		√
Floating Charging Voltage	54Vdc		√
Max. Hybrid Charging Current (Solar & Utility)	150Amp		√
PV INPUT			
Num.of Independent MPPT Tracker	2		
MPPT Input Current	2*22Amp		
Max. PV Array Power	12000W		
Max. Solar Charge Current	150Amp		√
PV Array MPPT Voltage Range	60~450Vdc		
Max. PV Array Open Circuit Voltage	500Vdc		
MPPT Tracking Efficiency	99.9%		
INVERTER OUTPUT			
Num. of Output Ports(Main & Second Output)	2		
Rated Output Power of Main / Second Output	8200W/8200W	10000W/10000W	
Max. Output Current of Main / Second Output	34.8A/34.8A	43.5A/43.5A	
Surge Capacity	16.4KVA/16.4KW for 5 Seconds	20KVA/20KW for 5 Seconds	
Output Voltage Waveform	Pure Sine Wave		
Overload Protection	5s@150% Load; 10s@110%~150% Load		
Output Voltage	220/230/240Vac±5%		
Output Frequency	50/60Hz±1Hz		
Peak Efficiency	94%		
Low Voltage Cut-off Voltage	42Vdc		√
High Voltage Cut-off Voltage	63Vdc		
Cold Start Voltage (When Only Connect with Battery)	46.0Vdc		
No Load Power Consumption	<70W@48Vdc		
GENERAL			
Embedded Interface	RS232*1/RS485*2/Dry Contact		
Operating Temperature Range	-10°C to 50°C		
Noise	≤ 60dB		
Protection Degree	IP21, Indoor Only		
Cooling Method	Intelligent Fan		
Net Dimension (H*W*D)	605*440*143 mm		
Net Weight	17.5 KG		
Warranty	2 Years		
Certification / Standard	CE (IEC61000,IEC62109); IEC61683; IEC60068; RoHS		

On/Off Grid Solar Storage Inverter

IP54 | Single Phase



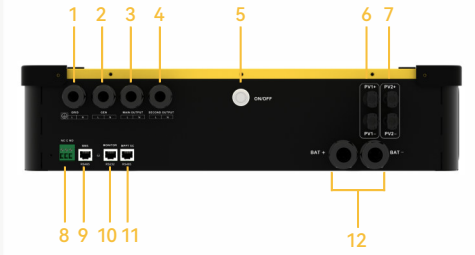
SG 4200/6000

The Sunflx SG 4200/6000 Series is a new-generation, 4.2/6 kW single-phase 220Vac hybrid storage inverter, designed for residential solar energy storage applications.

The inverter's IP54 rating provides robust protection against water and dust ingress, extending product lifespan in harsh environments. Its unique air duct design ensures efficient heat dissipation, enabling stable operation at ambient temperatures up to 55℃ while with less noise levels.

With a maximum MPPT input current of 32A, the inverter supports higher-capacity solar panel arrays. It is equipped with an intelligent BMS and is compatible with variou slow-voltage batteries. The built-in generator input port functionality enable flexible operation across multiple scenarios.

The SG 4200/6000 features a user-friendly and informative screen , also work with Sunflx Cloud APP, enabling remote real-time monitoring and configuration anytime, anywhere.



1.Grid Connection
2. Diesel Generator Input
3. Main Output
4. Second Output
5.ON/OFF
6.PV1 Terminal
7.PV2 Terminal
8.Dry Connection
9. BMS Port
10. WIFI Connection
11. Solar Controller Connection
12. Battery Terminal

- IP54-rated design for dustproof and splash-resistant protection
- Dual AC outputs for smart load management
- Dual AC inputs (Grid/Generator) with integrated ATS
- Compatible with lithium,lead-acid and GEL batteries
- PV and AC dual activation
- Plug-and-play quick connection MC4 PV terminals
- USB One-Key to upgrade firmware (Optional)

SUNFLX

Model	SG 4200	SG 6000	User-Settable
Nominal Battery Voltage	24Vdc	48Vdc	
Battery Type	Lithium LiFePO4/Lead-Acid/Flooded/User Defined		√
AC INPUT			
Nominal AC Input Voltage / Waveform	230Vac/Sinusoidal (Utility or Generator)		
AC Input Range	90~280Vac (Appliances);170Vac~280Vac(UPS)		√
Nominal Input Frequency	50/60Hz (Auto Detection)		√
AC Input Frequency Range	40~65±1Hz (>42 or <63±1Hz Comeback)		
Max. Bypass Current	30Amp	40Amp	
Output Short Circuit Protection	Circuit Breaker		
Transfer Time	10ms Typical (UPS); 20ms Typical (Appliances)		
AC CHARGER			
Charging Algorithm	3-Step		
Max. AC Charging Current	100Amp (@VI/P=230Vac)		√
Bulk Charging Voltage	29.2Vdc (Flooded Battery) 28.2Vdc (AGM/Gel Battery)	58.4Vdc (Flooded Battery) 56.4Vdc (AGM/Gel Battery)	√
Floating Charging Voltage	27Vdc	54Vdc	√
Max. Hybrid Charging Current (Solar & Utility)	120Amp		√
PV INPUT			
Num.of Independent MPPT Tracker	1		
Num. of String Per MPPT Tracker	1	2	
MPPT Input Current	1*22Amp	1*32Amp	
Max. PV Array Power	6000W	8000W	
Max. Solar Charge Current	120Amp		√
PV Array MPPT Voltage Range	60~450Vdc		
Max. PV Array Open Circuit Voltage	500Vdc		
MPPT Tracking Efficiency	99.9%		
INVERTER OUTPUT			
Num. of Output Ports (Main & Second Output)	2		
Rated Output Power of Main /Second Output	4200W/4200W	6000W/6000W	
Surge Capacity	8400VA/8400W for 5 Seconds	12000VA/12000W for 5 Seconds	
Output Voltage Waveform	Pure Sine Wave		
Overload Protection	5s@150% Load; 10s@110%~150% Load		
Output Voltage / Output Frequency	220/230/240 Vac ± 5% / 50/60Hz ±1 Hz		
Peak Efficiency	94%		
Low Voltage Cut-off Voltage	21Vdc	42Vdc	√
High Voltage Cut-off Voltage	33Vdc	63Vdc	
Cold Start Voltage (When Only Connect with Battery)	23Vdc	46Vdc	
No Load Power Consumption	<35W	<40W	
GENERAL			
Embedded Interface	RS232*1/RS485*2/Dry Contact		
Operating Temperature Range / Storage Temperature	-10℃~55℃ / -15℃~ 60℃		
Noise	≤ 60dB		
Protection Degree	IP54, Indoor and Outdoor		
Cooling Method	Intelligent Fan		
Net Dimension (H*W*D) / Net Weight	500*405*117 mm / 13 KG		
Warranty	3 Years		
Certification/Standard	CE(IEC61000,IEC62109); IEC61683; IEC60068; RoHS		

On/Off Grid Solar Storage Inverter

IP54 | Single Phase



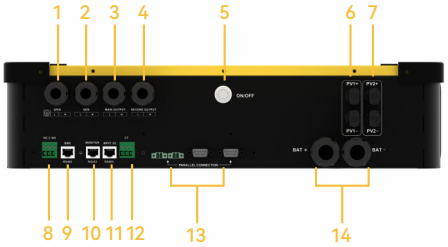
SG 4200/6000 Pro

The Sunflx SG 4200/6000 Pro Series is a new-generation, 4.2/6 kW single-phase 220Vac hybrid storage inverter, designed for residential solar energy storage applications.

The inverter's IP54 rating provides robust protection against water and dust ingress, extending product lifespan in harsh environments. Its unique air duct design ensures efficient heat dissipation, enabling stable operation at ambient temperatures up to 55℃ while with less noise levels.

With a maximum MPPT input current of 32A, the inverter supports higher-capacity solar panel arrays. It is equipped with an intelligent BMS and is compatible with variou slow-voltage batteries. The built-in generator input port functionality enable flexible operation across multiple scenarios.

The SG 4200/6000 Pro features a user-friendly and informative screen , also work with Sunflx Cloud APP, enabling remote real-time monitoring and configuration



1.Grid Connection
2. Diesel Generator Input
3. Main Output
4. Second Output
5.ON/OFF
6.PV1 Terminal
7.PV2 Terminal
8.Dry Connection
9. BMS Port
10. WIFI Connection
11. Solar Controller Connection
12. CT Port
13. Parallel Connection
14. Battery Terminal

- IP54-rated design for dustproof and splash-resistant protection
- Dual AC outputs for smart load management
- Dual AC inputs (Grid/Generator) with integrated ATS
- Compatible with lithium,lead-acid and GEL batteries
- PV and AC dual activation
- Plug-and-play quick connection MC4 PV terminals
- Up to 6 units in parallel for capacity extension (Optional)
- USB One-Key to upgrade firmware (Optional)
- Build-in CT for zero export

SUNFLX

Model	SG 4200 Pro	SG 6000 Pro	User-Settable
Nominal Battery Voltage	24Vdc	48Vdc	
Battery Type	Lithium LiFePO4/Lead-Acid/Flooded/User Defined		√
AC INPUT			
Nominal AC Input Voltage / Waveform	230Vac/Sinusoidal (Utility or Generator)		
AC Input Range	90~280Vac (Appliances);170Vac~280Vac(UPS)		√
Nominal Input Frequency	50/60Hz (Auto Detection)		√
AC Input Frequency Range	40~65±1Hz (>42 or <63±1Hz Comeback)		
Max. Bypass Current	30Amp	40Amp	
Output Short Circuit Protection	Circuit Breaker		
Transfer Time	10ms Typical (UPS); 20ms Typical (Appliances)		
AC CHARGER			
Charging Algorithm	3-Step		
Max. AC Charging Current	100Amp (@VI/P=230Vac)		√
Bulk Charging Voltage	29.2Vdc (Flooded Battery) 28.2Vdc (AGM/Gel Battery)	58.4Vdc (Flooded Battery) 56.4Vdc (AGM/Gel Battery)	√
Floating Charging Voltage	27Vdc	54Vdc	√
Max. Hybrid Charging Current (Solar & Utility)	120Amp		√
PV INPUT			
Num.of Independent MPPT Tracker	1		
Num. of String Per MPPT Tracker	1	2	
MPPT Input Current	1*22Amp	1*32Amp	
Max. PV Array Power	6000W	8000W	
Max. Solar Charge Current	120Amp		√
PV Array MPPT Voltage Range	60~450Vdc		
Max. PV Array Open Circuit Voltage	500Vdc		
MPPT Tracking Efficiency	99.9%		
INVERTER OUTPUT			
Num. of Output Ports (Main & Second Output)	2		
Rated Output Power of Main /Second Output	4200W/4200W	6000W/6000W	
Surge Capacity	8400VA/8400W for 5 Seconds	12000VA/12000W for 5 Seconds	
Output Voltage Waveform	Pure Sine Wave		
Overload Protection	5s@150% Load; 10s@110%~150% Load		
Output Voltage / Output Frequency	220/230/240 Vac ± 5% / 50/60Hz ±1 Hz		
Peak Efficiency	94%		
Low Voltage Cut-off Voltage	21Vdc	42Vdc	√
High Voltage Cut-off Voltage	33Vdc	63Vdc	
Cold Start Voltage (When Only Connect with Battery)	23Vdc	46Vdc	
No Load Power Consumption	<35W	<40W	
GENERAL			
Parallel Connection	Yes, 6 Units		
Embedded Interface	RS232*1/RS485*2/Dry Contact/CT		
Operating Temperature Range / Storage Temperature	-10℃~55℃ / -15℃~ 60℃		
Noise	≤ 60dB		
Protection Degree	IP54, Indoor and Outdoor		
Cooling Method	Intelligent Fan		
Net Dimension (H*W*D) / Net Weight	500*405*117 mm / 13 KG		
Warranty	3 Years		
Certification/Standard	CE(IEC61000,IEC62109); IEC61683; IEC60068; RoHS		

Hybrid Solar Storage Inverter

IP65 | Single Phase



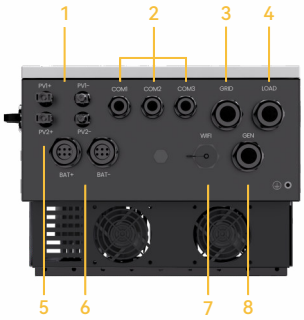
SH-S6K

The Sunflx SH-S6K Series hybrid storage inverter is a new-generation 6 kW IP65 single-phase 220Vac hybrid inverter designed for residential photovoltaic energy storage applications.

With high 18A MPPT input current, it supports larger solar panel input. Equipped with intelligent BMS, it works with various low-voltage batteries.

The SH-S6K hybrid inverter operates in on-grid, hybrid, and off-grid modes. Support parallel connection to make a large single-phase or three-phase system, the maximum power of 96kW and UPS-level backup enables max green energy use and grid feedback.

The SH-S6K features a user-friendly and informative LCD touchscreen.It also work with remote monitor application, enabling remote real-time monitoring and configuration anytime, anywhere.



1.PV1 Terminal
2.Communication Port
3.Grid Connection
4.Main Output
5.PV2 Terminal
6.Battery Terminal
7.WIFI Connection
8.Diesel Generator Input/Second Output

- 2 MPPT trackers with 18A string current
- Dual AC outputs for smart load management
- Max. 16 pcs parallel on both the grid and backup port
- Compatible with lithium-ion, lead-acid, and gel low-voltage batteries
- Multiple working modes: TOU, Max. self-consumption, zero export, and fully feed to grid
- Support DC-coupled, AC-coupled and AC-retrofit applications
- Support diesel generator input
- Universal user-friendly color touchscreen

Product functionality and technical specifications are subject to change across different versions
The definitive reference is the currently published Product Manual provided with this unit.

Model	SH-S6K
BATTERY	
Battery Type	Lithium LiFePO4/Lead-Acid/Flooded /User Defined
Rated Battery Voltage	40-60Vdc
Max. Battery Charge and Discharge Current	135Amp
Charging Curve	Three-Stage/ Equalizing Charge
PV INPUT	
Recommended Max. PV Power (for Module STC)	9600W
Max. PV Input Voltage	500Vdc
Min. PV Input Voltage/Startup Input Voltage	125Vdc
PV Array MPPT Voltage Range	150-425Vdc
Full Load PV Voltage Range / Rated PV Input Voltage	300-425Vdc/370Vdc
MPPT Input Current	18Amp+18Amp
Max. Short Circuit Current	27Amp+27Amp
Num. of Independent MPPT Tracker	2
Num.of PV Strings Per MPP Tracker	1+1
AC INPUT/OUTPUT	
Nominal AC Input Voltage / Frequency	220 /230Vac/50/60Hz (Auto Detection)
AC Input Range	180-270Vac
Max. Bypass Current	40Amp
Rated AC Output Power and UPS Power	6000W
Max. AC Output Active Power	6600W
Peak Power (Off-Grid)	12kW for 10 Second
AC Rated Input / Output Current	27.3/26.1Amp
Max. AC Input / Output Current	30/28.7Amp
Power Factor	0.8 Leading to 0.8 Lagging
Grid Type	Single Phase
Total Harmonic Distortion (THD)	<3% (of Rated Power)
No Load Power Consumption	100W
Grid DC Component	<0.5% In
Parallel Connection	Yes, 16 Units
EFFICIENCY	
Max. Efficiency/European Efficiency	97.6% / 96.5%
MPPT Efficiency	>99%
GENERAL	
Protection	PV Arc Fault Detection; PV Input Lightning Protection; Anti-Islanding Protection; PV String Input Reverse Polarity; Insulation Resistor Detection; Residual Current Monitoring Unit; Output Over Current; Output Shorted
Surge Protection	DC Type II / AC Type II
Operating Temperature Range	-40~+60℃, Derating when Above 45℃
Cooling Method	Smart Cooling (Heat Sink and Intelligent Fan)
Noise (dB)	<50 dB
BMS	RS485; CAN
Monitoring Mode	Wi-Fi+ APP
Dimensions (W x H x D) / Weight	340*520*255 mm (Excluding Connectors and Brackets) / 19 KG
Protection Degree	IP65
Warranty	5 Years
Grid Certification	IEC62116/61727; EN50549-1
Safety / EMC Standards	IEC/EN 61000-6/2/4; IEC/EN 62109-1; IEC/EN 62109-2

Hybrid Solar Storage Inverter

IP65 | Single Phase



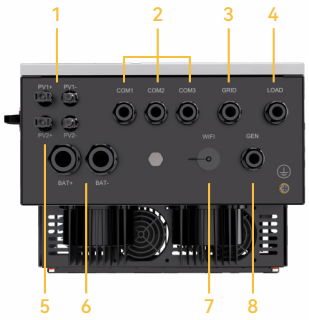
SH-S8K

The Sunflx SH-S8K Series hybrid storage inverter is a new-generation 8kW IP65 single-phase 220Vac hybrid inverter designed for residential photovoltaic energy storage applications.

With high 26A MPPT input current, it supports larger solar panel input. Equipped with intelligent BMS, it works with various low-voltage batteries.

The SH-S8K hybrid inverter operates in on-grid, hybrid, and off-grid modes. Support parallel connection to make a large single-phase or three-phase system, the maximum power of 128kW and UPS-level backup enables max green energy use and grid feedback.

The SH-S8K features a user-friendly and informative LCD touchscreen.It also work with remote monitor application, enabling remote real-time monitoring and configuration anytime, anywhere.



1.PV1 Terminal
2.Communication Port
3.Grid Connection
4.Main Output
5.PV2 Terminal
6.Battery Terminal
7.WIFI Connection
8.Diesel Generator Input/Second Output

- 2 MPPT trackers with 26A string current
- Dual AC outputs for smart load management
- Max. 16 pcs parallel on both the grid and backup port
- Compatible with lithium-ion, lead-acid, and gel low-voltage batteries
- Multiple working modes: TOU, Max. self-consumption, zero export, and fully feed to grid
- Support DC-coupled, AC-coupled and AC-retrofit applications
- Support diesel generator input
- Universal user-friendly color touchscreen

Product functionality and technical specifications are subject to change across different versions
The definitive reference is the currently published Product Manual provided with this unit.

Model	SH-S8K
BATTERY	
Battery Type	Lithium LiFePO4/Lead-Acid/Flooded /User Defined
Rated Battery Voltage	40-60Vdc
Max. Battery Charge and Discharge Current	190Amp
Charging Curve	Three-Stage/ Equalizing Charge
PV INPUT	
Recommended Max. PV Power (for Module STC)	12800W
Max. PV Input Voltage	500Vdc
Min. PV Input Voltage / Startup Input Voltage	125Vdc
PV Array MPPT Voltage Range	150-425Vdc
Full Load PV Voltage Range / Rated PV Input Voltage	300-425Vdc/370Vdc
MPPT Input Current	26Amp+26Amp
Max. Short Circuit Current	34Amp+34Amp
Num. of Independent MPPT Tracker	2
Num.of PV Strings Per MPP Tracker	1+1
AC INPUT/OUTPUT	
Nominal AC Input Voltage / Frequency	220 /230Vac/50/60Hz (Auto Detection)
AC Input Range	180-270Vac
Max. Bypass Current	50Amp
Rated AC Output Power and UPS Power	8000W
Max. AC Output Active Power	8800W
Peak Power (Off-Grid)	16kW for 10 Second
AC Rated Input / Output Current	36.4/34.8Amp
Max. AC Input / Output Current	40/38.3Amp
Power Factor	0.8 Leading to 0.8 Lagging
Grid Type	Single Phase
Total Harmonic Distortion (THD)	<3% (of Rated Power)
No Load Power Consumption	100W
Grid DC Component	<0.5% In
Parallel Connection	Yes, 16 Units
EFFICIENCY	
Max. Efficiency/European Efficiency	97.6% / 96.5%
MPPT Efficiency	>99%
GENERAL	
Protection	PV Arc Fault Detection; PV Input Lightning Protection; Anti-Islanding Protection; PV String Input Reverse Polarity; Insulation Resistor Detection; Residual Current Monitoring Unit; Output Over Current; Output Shorted
Surge Protection	DC Type II / AC Type II
Operating Temperature Range	-40~+60℃, Derating when Above 45℃
Cooling Method	Smart Cooling (Heat Sink and Intelligent Fan)
Noise (dB)	<50 dB
BMS	RS485; CAN
Monitoring Mode	Wi-Fi+ APP
Dimensions (W x H x D) / Weight	340*610*260 mm (Excluding Connectors and Brackets) / 24 KG
Protection Degree	IP65
Warranty	5 Years
Grid Certification	IEC62116/61727;EN50549-1
Safety / EMC Standards	IEC/EN 61000-6/2/4; IEC/EN 62109-1; IEC/EN 62109-2

Hybrid Solar Storage Inverter

IP65 | Single Phase



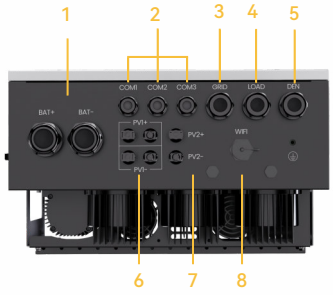
SH-S10K-S12K

The Sunflx SH-S10K/12K Series hybrid storage inverter is a new-generation 10-12kW IP65 single-phase 220Vac hybrid inverter designed for large residential photovoltaic energy storage applications.

With high 26A MPPT input current, it supports larger solar panel input. Equipped with intelligent BMS, it works with various low-voltage batteries.

The SH-S10K/12K hybrid inverter operates in on-grid, hybrid, and off-grid modes. Support parallel connection to make a large single-phase or three-phase system, the maximum power of 192kW and UPS-level backup enables max green energy use and grid feedback.

The SH-S10K/12K features a user-friendly and informative LCD touchscreen.It also work with remote monitor application, enabling remote real-time monitoring and configuration anytime, anywhere.



1.Battery Terminal
2.Communication Port
3.Grid Connection
4.Main Output
5.Diesel Generator Input/Second Output
6.PV1 Terminal
7.PV2 Terminal
8.WIFI Connection

- 3 MPPT trackers with 26A string current
- Dual AC outputs for smart load management
- Max. 16 pcs parallel on both the grid and backup port
- Compatible with lithium-ion, lead-acid, and gel low-voltage batteries
- Multiple working modes: TOU, Max. self-consumption, zero export, and fully feed to grid
- Support DC-coupled, AC-coupled and AC-retrofit applications
- Support diesel generator input
- Universal user-friendly color touchscreen

Product functionality and technical specifications are subject to change across different versions
The definitive reference is the currently published Product Manual provided with this unit.

Model	SH-S10K	SH-S12K
BATTERY		
Battery Type	Lithium LiFePO4/Lead-Acid/Flooded /User Defined	
Rated Battery Voltage	40-60Vdc	
Max. Battery Charge and Discharge Current	220Amp	250Amp
Charging Curve	Three-Stage / Equalizing Charge	
PV INPUT		
Recommended Max. PV Power (for Module STC)	16000W	19200W
Max. PV Input Voltage	500Vdc	
Min. PV Input Voltage / Startup Input Voltage	125Vdc	
PV Array MPPT Voltage Range	150-425Vdc	
Full Load PV Voltage Range / Rated PV Input Voltage	200-425Vdc / 370Vdc	
MPPT Input Current	26Amp+26Amp+26Amp	
Max. Short Circuit Current	44Amp+44Amp+44Amp	
Num. of Independent MPPT Tracker	3	
Num.of PV Strings Per MPP Tracker	2+2+2	
AC INPUT/OUTPUT		
Nominal AC Input Voltage / Frequency	220/230Vac/50/60Hz (Auto Detection)	
AC Input Range	180-270Vac	
Max. Bypass Current	60Amp	
Rated AC Output Power and UPS Power	10000W	12000W
Max. AC Output Active Power	11000W	13200W
Peak Power (Off-Grid)	20KW for 10 Second	24KW for 10 Second
AC Rated Input / Output Current	45.5/43.5Amp	54.6/52.2Amp
Max. AC Input / Output Current	50/47.9Amp	60/57.4Amp
Power Factor	0.8 Leading to 0.8 Lagging	
Grid Type	Single Phase	
Total Harmonic Distortion (THD)	<3% (of Rated Power)	
No Load Power Consumption	100W	
Grid DC Component	<0.5% In	
Parallel Connection	Yes, 16 Units	
EFFICIENCY		
Max. Efficiency/European Efficiency	97.6% / 96.5%	
MPPT Efficiency	>99%	
GENERAL		
Protection	PV Arc Fault Detection; PV Input Lightning Protection; Anti-Islanding Protection; PV String Input Reverse Polarity; Insulation Resistor Detection; Residual Current Monitoring Unit; Output Over Current; Output Shorted	
Surge Protection	DC Type II / AC Type II	
Operating Temperature Range	-40~+60℃, Derating when Above 45℃	
Cooling Method	Smart Cooling (Heat Sink and Intelligent Fan)	
Noise (dB)	<50 dB	
BMS	RS485; CAN	
Monitoring Mode	Wi-Fi+ APP	
Dimensions (W x H x D) / Weight	446*576*254mm (Excluding Connectors and Brackets) /31 KG	
Protection Degree	IP65	
Warranty	5 Years	
Grid Certification	IEC62116/61727; EN50549-1	
Safety / EMC Standards	IEC/EN 61000-6/2/4; IEC/EN 62109-1; IEC/EN 62109-2	

Hybrid Solar Storage Inverter

IP65 | Three Phase



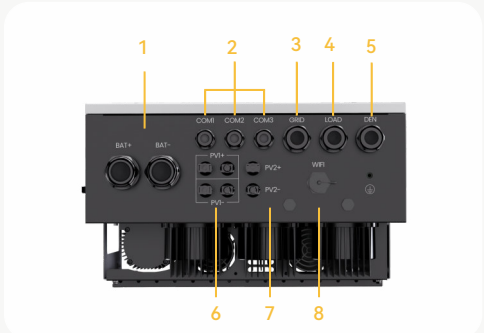
SH-T8K/T10K/T12K

The Sunflx SH-T8/10/12K Series hybrid storage inverter is a new-generation 8/10/12 kW IP65 three-phase 380Vac hybrid inverter designed for large residential photovoltaic energy storage applications.

With high 26A+13A MPPT input current, it supports larger solar panel input. Equipped with intelligent BMS, it works with various low-voltage batteries.

The SH-T8-12K hybrid inverter operates in on-grid, hybrid, and off-grid modes. Support parallel connection to make a large single-phase or three-phase system, the maximum power of 120kW and UPS-level backup enables max green energy use and grid feedback.

The SH-T8-12K features a user-friendly and informative LCD touchscreen.It also work with remote monitor application, enabling remote real-time monitoring and configuration anytime, anywhere.



1.Battery Terminal
2.Communication Port
3.Grid Connection
4.Main Output
5.Diesel Generator Input/Second Output
6.PV1 Terminal
7.PV2 Terminal
8.WIFI Connection

- 2 MPPT trackers with 26A string current
- Dual AC outputs for smart load management
- Max. 10 pcs parallel on both the grid and backup port
- Compatible with lithium-ion, lead-acid, and gel low-voltage batteries
- 100% three-phase unbalanced load output capability
- Multiple working modes: TOU, Max. self-consumption, zero export, and fully feed to grid
- Support DC-coupled, AC-coupled and AC-retrofit applications
- Support diesel generator input
- Universal user-friendly color touchscreen

Product functionality and technical specifications are subject to change across different versions
The definitive reference is the currently published Product Manual provided with this unit.

Model	SH-T8K	SH-T10K	SH-T12K
BATTERY			
Battery Type	Lithium LiFePO4/Lead-Acid/Flooded /User Defined		
Rated Battery Voltage	40-60Vdc		
Max. Battery Charge and Discharge Current	190Amp	210Amp	240Amp
PV INPUT			
Recommended Max. PV Power (for Module STC)	12800W	16000W	19200W
Max. PV Input Voltage	800Vdc		
Min. PV Input Voltage / Startup Input Voltage	160Vdc		
PV Array MPPT Voltage Range	200-650Vdc		
Full Load PV Voltage Range / Rated PV Input Voltage	260~650Vdc/550Vdc	350~650Vdc/550Vdc	350~650Vdc/550Vdc
MPPT Input Current	20Amp+20Amp	26Amp+26Amp	26Amp+26Amp
Max. Short Circuit Current	30Amp+30Amp	39Amp+39Amp	39Amp+39Amp
Num. of Independent MPPT Tracker	2		
Num.of PV Strings Per MPP Tracker	1+1	2+2	2+2
AC INPUT/OUTPUT			
Nominal AC Input Voltage / Frequency	3L/N/PE; 220/380Vac, 230/400Vac; 50/60Hz (Auto Detection)		
Grid Type	Three-Phase		
AC Input Range	310-466Vac		
Rated AC Output Power and UPS Power	8000W	10000W	12000W
Max. AC Output Active Power	8800W	11000W	13200W
Peak Power (Off-Grid)	16KW for 10 Second	20KW for 10 Second	24KW for 10 Second
AC Rated Input / Output Current	12.2/11.6Amp	15.2/14.5Amp	18.2/17.4Amp
Max.AC Input / Output Current	13.4/12.8Amp	16.7/16Amp	20/19.1Amp
Max.Three-Phase Unbalanced Output Current	18.2/17.4Amp	22.7/21.7Amp	27.3/26.1Amp
Max, Output Short-Circuit Current	65Amp		
Max. Continuous AC Passthrough	45Amp		
Power Factor	0.8 Leading to 0.8 Lagging		
Total Harmonic Distortion (THD)	<3% (of Rated Power)		
No Load Power Consumption	100W		
Grid DC Component	<0.5% In		
Parallel Connection	Yes, 10 Units		
EFFICIENCY			
Max. Efficiency/European Efficiency	97.6% / 97%		
MPPT Efficiency	>99%		
GENERAL			
Protection	Anti-Islanding; PV String Input Reverse Polarity Protection; Insulation Resistor Detection; Residual Current Monitoring Unit; Output Over Current; Output Shorted; Output Overvoltage; Photovoltaic Input Lightning		
Surge Protection	DC Type III / AC Type III		
Operating Temperature Range	-40~+60℃, Derating when Above 45℃		
Cooling Method	Smart Cooling (Heat Sink and Intelligent Fan)		
Noise (dB)	<50 dB		
BMS	RS485; CAN		
Monitoring Mode	Wi-Fi+ APP		
Dimensions (W x H x D) / Weight	440*680*255mm (Excluding Connectors and Brackets) /34 KG		
Protection Degree	IP65		
Warranty	5 Years		
Grid Certification	IEC62116/61727; EN50549-1		
Safety / EMC Standards	IEC/EN 61000-6/2/4; IEC/EN 62109-1; IEC/EN 62109-2		

Hybrid Solar Storage Inverter

IP65 | Three Phase



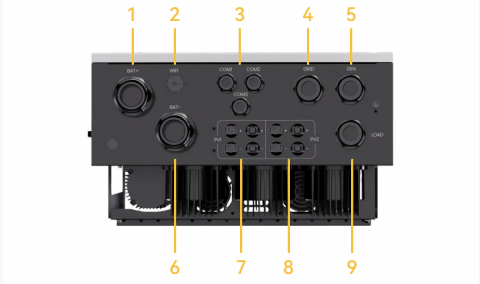
SH-T15K/T20K

The Sunflx SH-T15K/T20K Series hybrid storage inverter is a new-generation 15/20 kW IP65 three-phase 380Vac hybrid inverter designed for large residential photovoltaic energy storage applications.

With high 36A MPPT input current, it supports larger solar panel input. Equipped with intelligent BMS, it works with various low-voltage batteries.

The SH-T15-20K hybrid inverter operates in on-grid, hybrid, and off-grid modes. Support parallel connection to make a large single-phase or three-phase system, the maximum power of 200kW and UPS-level backup enables max green energy use and grid feedback.

The SH-T15-20K features a user-friendly and informative LCD touchscreen.It also work with remote monitor application, enabling remote real-time monitoring and configuration anytime, anywhere.



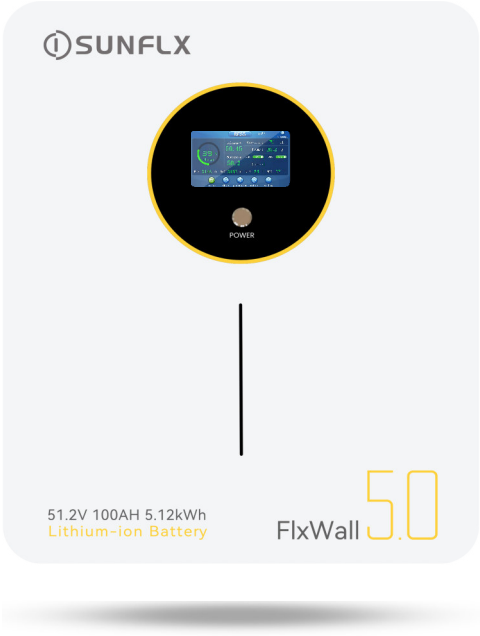
1.Battery Terminal
2. WIFI Connection
3.Communication Port
4. Grid Connection
5.Diesel Generator Input / Second Output
6.Battery Terminal
7.PV1 Terminal
8. PV2 Terminal
9.Main Output

- 2 MPPT trackers with 36A string current
- Dual AC outputs for smart load management
- Max. 10 pcs parallel on both the grid and backup port
- Compatible with lithium-ion, lead-acid, and gel low-voltage batteries
- 100% three-phase unbalanced load output capability
- Multiple working modes: TOU, Max. self-consumption, zero export, and fully feed to grid
- Support DC-coupled, AC-coupled and AC-retrofit applications
- Support diesel generator input
- Universal user-friendly color touchscreen

Product functionality and technical specifications are subject to change across different versions
The definitive reference is the currently published Product Manual provided with this unit.

Model	SH-T15K	SH-T20K
BATTERY		
Battery Type	Lithium LiFePO4/Lead-Acid/Flooded /User Defined	
Rated Battery Voltage	40-60Vdc	
Max. Battery Charge and Discharge Current	280Amp	350Amp
PV INPUT		
Recommended Max. PV Power (for Module STC)	24000W	32000W
Max. PV Input Voltage	800Vdc	
Min. PV Input Voltage / Startup Input Voltage	160Vdc	
PV Array MPPT Voltage Range	160-650Vdc	
Full Load PV Voltage Range / Rated PV Input Voltage	330-650Vdc /550Vdc	440-650Vdc /550Vdc
MPPT Input Current	36Amp+36Amp	
Max. Short Circuit Current	54Amp+54Amp	
Num. of Independent MPPT Tracker	2	
Num.of PV Strings Per MPP Tracker	2+2	
AC INPUT/OUTPUT		
Nominal AC Input Voltage / Frequency	3L/N/PE; 220/380Vac, 230/400Vac; 50/60Hz (Auto Detection)	
Grid Type	Three-Phase Four-Wire	
AC Input Range	310-466Vac	
Rated AC Output Power and UPS Power	15000W	20000W
Max. AC Output Active Power	16500W	22000W
Peak Power (Off-Grid)	30KW for 10 Second	40KW for 10 Second
AC Rated Input / Output Current	22.8/21.8Amp	30.4/29Amp
Max.AC Input / Output Current	25/24Amp	33.4/31.9Amp
Max. Output Overcurrent Protection	100Amp	
Max. Continuous AC Passthrough	70Amp	
Power Factor	0.8 Leading to 0.8 Lagging	
Total Harmonic Distortion (THD)	<3% (of Rated Power)	
No Load Power Consumption	100W	
Grid DC Component	<0.5% In	
Parallel Connection	Yes, 10 Units	
EFFICIENCY		
Max. Efficiency/European Efficiency	97.6% / 97%	
MPPT Efficiency	>99%	
GENERAL		
Protection	DC Reverse Polarity Protection ; Residual Current Monitoring ; AC Overcurrent Protection ; AC Short Circuit Protection ; AC Overvoltage Protection ; Thermal Protection; DC Terminal Insulation Impedance Monitoring; DC Component Monitoring; Ground Fault Current Monitoring; Power Network Monitoring; Island Protection Monitoring;Earth Fault Detection; DC Input Switch; Overvoltage Load Drop Protection	
Surge Protection	DC Type II / AC Type II	
Operating Temperature Range	-40~+60℃, Derating when Above 45℃	
Cooling Method	Intelligent Air Cooling	
Noise (dB)	<60 dB	
BMS	RS232;RS485; CAN	
Monitoring	GPRS/WIFI/Bluetooth/4G/LAN(Optional)	
Dimensions (W x H x D) / Weight	435*750*268 mm / 52 KG	
Protection Degree	IP65	
Warranty	5 Years	
Grid Certification	IEC61727/62116,EN50549-1	
Safety / EMC Standards	IEC/EN 61000-6-1/2/3/4; IEC/EN 62109-1; IEC/EN 62109-2	

Lithium-ion Battery

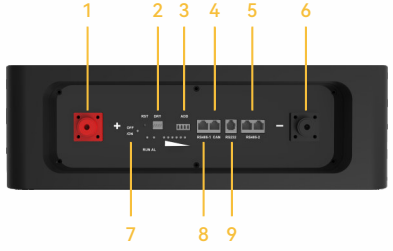


FlxWall 2.5 / 5.0-24/5.0-48

The Sunflx FlxWall 2.5/5.0 series is a low-voltage lithium battery designed for residential use, offering excellent performance. Compatible with Sunflx solar inverters, it features a cohesive design that provides a one-stop solution, saving you time and effort.

The battery is flexible for self-consumption and backup, with capacities ranging from 2.5 kWh to 5 kWh, and supports parallel expansion up to 75 kWh. It's an efficient solar storage solution for on-demand energy use.

[1] MSDS UN38.3 RoHS



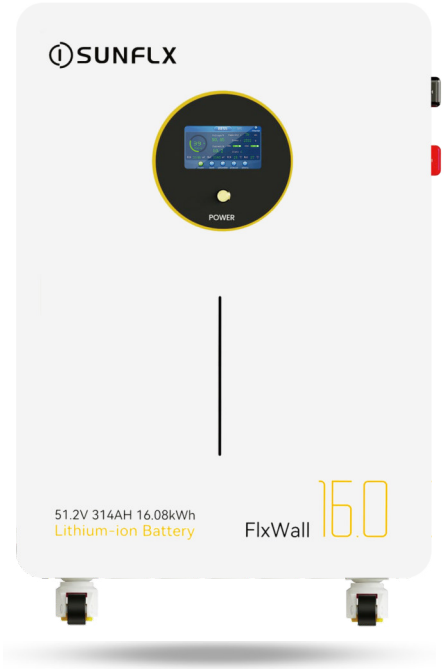
1.P+ Socket
2. Dry Contact
3.DIP Switch
4. CAN
5.RS485-2
6.P- Socket
7.Power Switch
8.RS485-1
9. RS232

- Brand new A+ battery cell with voltage deviation ≤ 2mV
- 10-year design lifespan with 6000 cycles
- Continuous 1C-rate discharge (up to 100A)
- 4.3-inch user-friendly touchscreen
- 100% Depth of Discharge (DOD) for maximum usable energy
- Built-in DC circuit breaker for enhanced safety
- WiFi & Bluetooth remote monitoring
- Supports up to 15 units in parallel for capacity expansion
- Built-in multiple communcation protocols, easy compatible with 95% inverter brands

* [1] Product functionality and technical specifications are subject to change across different versions
The definitive reference is the currently published Product Manual provided with this unit.

Model	FlxWall 2.5-24	FlxWall 5.0-24	FlxWall 5.0-48
ELECTRICAL			
Nominal Capacity	2.56kWh (100Ah)	5.12kWh (200Ah)	5.12kWh (100Ah)
Cell Technology	LiFePO4 Prismatic Cell		
Nominal Voltage	25.6Vdc		51.2Vdc
Battery Cell	8 Cells in Series	8 Cells in Series 2 Series in Parallel	16 Cells in Series
Operating Voltage	20.8-29.2Vdc		43.2-58.4Vdc
Low Voltage Cut-off Voltage (Default)	23.2Vdc		43.2Vdc
Low Voltage Protection Recovery Value (Default)	24Vdc		48Vdc
High Voltage Cut-off Voltage (Default)	29.2Vdc		58.4Vdc
High Voltage Protection Recovery Value (Default)	27.2Vdc		54.4Vdc
Full Voltage Difference Battery Pack	≤ 20mV		
DOD / Life Span	Max. 100 % DOD (Settable) / Cycle Times: > 6000 (25℃, 0.5C, 80%DOD)		
Default Charging Current	50Amp (0.5C)	100Amp (0.5C)	50Amp (0.5C)
Max. Charging Current	100Amp (1C)	200Amp (1C)	100Amp (1C)
Default Discharge Current	100Amp (1C)	200Amp (1C)	100Amp (1C)
Max. Discharge Current	100Amp (1C)	200Amp (1C)	100Amp (1C)
BMS Protection Current	120A (2s); 140A (0.2s)	220A (2s); 230A (0.2s)	120A (2s); 140A (0.2s)
GENERAL			
Dimension (H*W*D)	400*380*160 mm	400*600*160 mm	400*600*160 mm
Weight	30 KG	51 KG	51 KG
Protection Degree	IP20		
Protection Function	Short Circuit Protection; Over/ Under temperature Protection; Over Current Protection; Lower/High Voltage Protection; MOS Temperature Protection; Battery Cell Level Over Charge / Discharge Protection		
Working Environment	Humidity ≤ 95%RH (No Condensation); Altitude: ≤ 4000		
Operating Temperature Range	Charge: 0 ℃~+50 ℃, Discharge: -20℃~ +60 ℃		
Storage Temperature	-10 ℃~+50 ℃		
Mounting Method	Wall Mounted or Floor Stand		
Cooling Method	Natural Convection		
OTHER			
Display	4.3 inch Touch Screen, LED Indicator		
System Connection	Max. 15 Pcs in Parallel		
Power Cable	4 AWG*1.5m	3 AWG*1.5m	4 AWG*1.5m
Monitoring	Built-in WIFI and Bluetooth		
Communication Port	RS232, RS485, CAN		
Application	Hybrid / Off Grid Solar System		
Compatible Inverters	Refer to Compatible Inverter List (Compatible with Major Inverter Brands)		
Warranty	5 Years		
Certification/Standard	UN 38.3; MSDS; RoHS		

Lithium-ion Battery

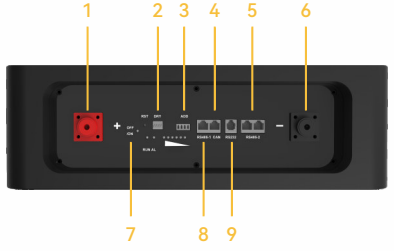


FlxWall 10.0/15.0/16.0

The Sunflx FlxWall 10.0/15.0/16.0 series is a low-voltage lithium battery designed for residential use, offering excellent performance. Compatible with Sunflx solar inverters, it features a cohesive design that provides a one-stop solution, saving you time and effort.

The battery is flexible for self-consumption and backup, with capacities ranging from 10 kWh to 16 kWh, and supports parallel expansion up to 240 kWh. It's an efficient solar storage solution for on-demand energy use.

[1] MSDS UN38.3 RoHS



1.P+ Socket
2. Dry Contact
3.DIP Switch
4. CAN
5.RS485-2
6.P- Socket
7.Power Switch
8.RS485-1
9. RS232

- Brand new A+ battery cell with voltage deviation ≤ 2mV
- 10-year design lifespan with 6000 cycles (up to 8000)
- Continuous 1C-rate discharge (up to 200A)
- 4.3-inch user-friendly touchscreen
- 100% Depth of Discharge (DOD) for maximum usable energy
- Built-in DC circuit breaker for enhanced safety
- WiFi & Bluetooth remote monitoring
- Supports up to 15 units in parallel for capacity expansion
- Built-in multiple communcation protocols, easy compatible with 95% inverter brands

SUNFLX

* [1] Product functionality and technical specifications are subject to change across different versions
The definitive reference is the currently published Product Manual provided with this unit.

Model	FlxWall 10.0	FlxWall 15.0	FlxWall 16.0
ELECTRICAL			
Nominal Capacity	10.49kWh (200Ah)	15.36kWh (300Ah)	16.08kWh (314Ah)
Cell Technology	LiFePO4 Prismatic Cell		
Nominal Voltage	51.2Vdc		
Battery Cell	16 Cells in Series		
Operating Voltage	43.2-58.4Vdc		
Low Voltage Cut-off Voltage (Default)	43.2Vdc		
Low Voltage Protection Recovery Value (Default)	48Vdc		
High Voltage Cut-off Voltage (Default)	58.4Vdc		
High Voltage Protection Recovery Value (Default)	54.4Vdc		
Full Voltage Difference Battery Pack	≤ 20mV		
DOD	Max. 100 % DOD (Settable)		
Life Span(Cycle Times)	> 6000 (25℃, 0.5C, 80%DOD)		≥ 8000 (25℃, 0.5C, 80%DOD)
Default Charging Current	100Amp (0.5C)	100Amp (0.5C)	100Amp (0.5C)
Max. Charging Current	200Amp (1C)	200Amp	200Amp
Default Discharge Current	200Amp (1C)	200Amp	200Amp
Max. Discharge Current	200Amp (1C)	200Amp	200Amp
BMS Protection Current	220A (2s); 230A (0.2s)	220A (2s); 230A (0.2s)	220A (2s); 230A (0.2s)
GENERAL			
Dimension (H*W*D)	550*765*165 mm	520*720*260 mm	520*720*260 mm
Weight	98 KG	130 KG	135 KG
Protection Degree	IP20		
Protection Function	Short Circuit Protection; Over/ Under temperature Protection; Over Current Protection; Lower/High Voltage Protection; MOS Temperature Protection; Battery Cell Level Over Charge / Discharge Protection		
Working Environment	Humidity ≤ 95%RH (No Condensation); Altitude: ≤ 4000		
Operating Temperature Range	Charge: 0 ℃~+50 ℃, Discharge: -20℃~ +60 ℃		
Storage Temperature	-10 ℃~+50 ℃		
Mounting Method	Wall Mounted or Floor Stand		
Cooling Method	Natural Convection		
OTHER			
Display	4.3 inch Touch Screen, LED Indicator		
System Connection	Max. 15 Pcs in Parallel		
Power Cable	2 AWG*1.5m	2 AWG*1.5m	2 AWG*1.5m
Monitoring	Built-in WIFI and Bluetooth		
Communication Port	RS232, RS485, CAN		
Application	Hybrid / Off Grid Solar System		
Compatible Inverters	Refer to Compatible Inverter List (Compatible with Major Inverter Brands)		
Warranty	5 Years		
Certification/Standard	UN 38.3; MSDS; RoHS		

Lithium-ion Battery

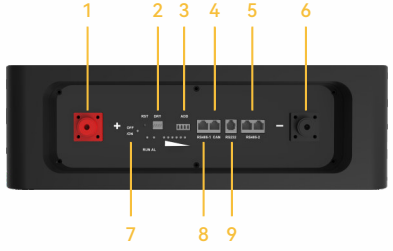


FlxStation 20.0/25.0/30.0/32.0

The Sunflx FlxStation 20.0/25.0/30.0/32.0 series is a low-voltage lithium battery designed for residential use, offering excellent performance. Compatible with Sunflx solar inverters, it features a cohesive design that provides a one stop solution, saving you time and effort.

The battery is flexible for self-consumption and backup, with capacities ranging from 20 kWh to 32 kWh, and supports parallel expansion up to 480 kWh. It's an efficient solar storage solution for on-demand energy use.

[1] MSDS UN38.3 RoHS



1.P+ Socket
2. Dry Contact
3.DIP Switch
4. CAN
5.RS485-2
6.P- Socket
7.Power Switch
8.RS485-1
9. RS232

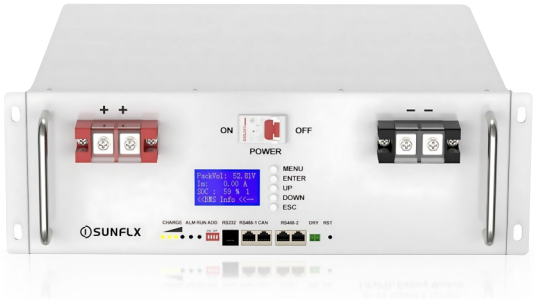
- Brand new A+ battery cell with voltage deviation ≤ 2mV
- 10-year design lifespan with 6000 cycles (up to 8000)
- Continuous 1C-rate discharge (up to 200A)
- 4.3-inch user-friendly touchscreen
- 100% Depth of Discharge (DOD) for maximum usable energy
- Built-in DC circuit breaker for enhanced safety
- WiFi & Bluetooth remote monitoring
- Supports up to 15 units in parallel for capacity expansion
- Built-in multiple communcation protocols, easy compatible with 95% inverter brands

SUNFLX

* [1] Product functionality and technical specifications are subject to change across different versions
The definitive reference is the currently published Product Manual provided with this unit.

Model	FlxStation 20.0	FlxStation 25.0	FlxStation 30.0	FlxStation 32.0
ELECTRICAL				
Nominal Capacity	20.99kWh (410Ah)	23.55kWh (460Ah)	30.72kWh (600Ah)	32.15kWh (628Ah)
Cell Technology	LiFePO4 Prismatic Cell			
Nominal Voltage	51.2Vdc			
Battery Cell	16 Cells in Series , 2 Series in Parallel			
Operating Voltage	43.2-58.4Vdc			
Low Voltage Cut-off Voltage (Default)	43.2Vdc			
Low Voltage Protection Recovery Value (Default)	48Vdc			
High Voltage Cut-off Voltage (Default)	58.4Vdc			
High Voltage Protection Recovery Value (Default)	54.4Vdc			
Full Voltage Difference Battery Pack	≤ 20mV			
DOD	Max. 100 % DOD (Settable)			
Life Span(Cycle Times)	> 6000 (25℃, 0.5C, 80%DOD)			≥ 8000 (25℃, 0.5C, 80%DOD)
Default Charging Current	100Amp	100Amp	100Amp	100Amp
Max. Charging Current	200Amp	200Amp	200Amp	200Amp
Default Discharge Current	200Amp	200Amp	200Amp	200Amp
Max. Discharge Current	200Amp	200Amp	200Amp	200Amp
BMS Protection Current	220A (2s); 240A (0.2s)	220A (2s); 240A (0.2s)	220A (2s); 240A (0.2s)	220A (2s); 240A (0.2s)
GENERAL				
Dimension (H*W*D)	350*615*820 mm	380*661*825 mm	380*661*825 mm	380*661*825 mm
Weight	170 KG	186 KG	198 KG	205 KG
Protection Degree	Ip20			
Protection Function	Short Circuit Protection; Over/ Under temperature Protection; Over Current Protection; Lower/High Voltage Protection; MOS Temperature Protection; Battery Cell Level Over Charge / Discharge Protection			
Working Environment	Humidity ≤ 95%RH (No Condensation); Altitude: ≤ 4000			
Operating Temperature Range	Charge: 0 ℃~+50 ℃, Discharge: -20℃~ +60 ℃			
Storage Temperature	-10 ℃~+50 ℃			
Mounting Method	Floor Stand			
Cooling Method	Natural Convection			
OTHER				
Display	4.3 inch Touch Screen, LED Indicator			
System Connection	Max. 15 Pcs in Parallel			
Power Cable	2 AWG*1.5m	2 AWG*1.5m	2 AWG*1.5m	2 AWG*1.5m
Monitoring	Built-in WIFI and Bluetooth			
Communication Port	RS232, RS485, CAN			
Application	Hybrid / Off Grid Solar System			
Compatible Inverters	Refer to Compatible Inverter List (Compatible with Major Inverter Brands)			
Warranty	5 Years			
Certification/Standard	UN 38.3; MSDS; RoHS			

Lithium-ion Battery



FlxRack 5.0/10.0

The Sunflx FlxRack 5.0/10.0 series is designed for residential energy needs, optimizing self-consumption and providing reliable solar backup. With high energy density, it stores significant energy in a compact design.It supports up to 15 parallel units and various installation methods for expansion. Its excellent cycle life ensures lasting value for homeowners.

[1] MSDS UN38.3 RoHS

Continuous discharge current up to 200A

Superior safety with LiFePO4 battery

Max 15 units in parallel to expand capacity

Compact design for easy installation

100% DOD for maximum usable energy

IP20-rated for dust and water protection

SUNFLX

* [1] Product functionality and technical specifications are subject to change across different versions
The definitive reference is the currently published Product Manual provided with this unit.

Model	FlxRack 5.0	FlxRack 10.0
ELECTRICAL		
Cell Technology	LiFePO4 Prismatic Cell	
Nominal Capacity	5.12kWh (100Ah)	10.24kWh (200Ah)
Nominal Voltage	51.2Vdc	
Operating Voltage	40~58.4Vdc	
Standard Charging Current	100Amp (1C)	200Amp (1C)
Standard Discharge Current	100Amp (1C)	200Amp (1C)
Depth of Discharge (DOD)	Max.100% DOD (Settable)	
GENERAL		
Dimension (W*H*D)	482*410*133 mm	482*820*133 mm
Weight	41.6 KG	83.2 KG
Protection Degree	IP20	
Cooling Method	Natural Convection	
Mounting Method	Wall Mounted or Floor Stand	
Max. Operating Altitude	Max. 2000 Meters	
Operating Temperature Range	Charge: 0℃~+50 ℃, Discharge: -20 ℃ ~ +60 ℃	
Storage Temperature	-10℃~+40℃	
OTHER		
Life Span	Cycle Times (25℃, 0.5C, 80%DOD): >6000	
System Connection	Max. 15 Pcs in Parallel	
Display	SOC Status Indicator, LED Indicator	
Communication Port	CAN/RS485	
Warranty	5 Years	
CERTIFICATION		
Certification / Standard	UN 38.3; MSDS; RoHS	

Lithium-ion Battery



LiEco 12-100/12-200/12-300 /24-100/24-200

Sunflx's LiEco series batteries are designed for small-capacity energy storage systems, providing an efficient residential solution. Their compact design ensures easy installation, while advanced technology offers reliable performance and long cycle life. Supporting scalable configurations, users can expand storage capacity as needed. The LiEco series is ideal for optimizing energy use for self-consumption or backup power.

MSDS UN38.3 RoHS

Safe Technology

no fire or explosion risk

Light Weight

one-third to one-quarter of lead-acid

Long Lifespan

over 2000 deep discharge cycles

Fast Charging

higher continuous charge rates accepted

Brand New A+ Cell

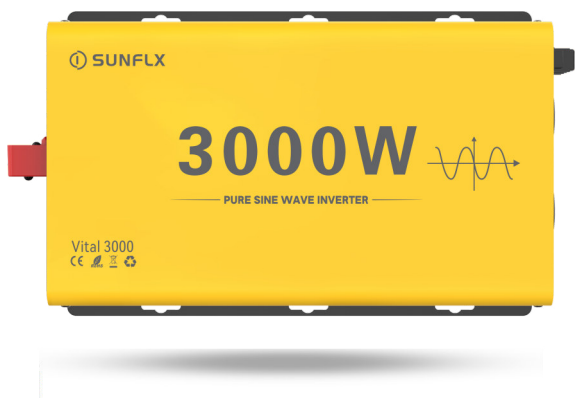
voltage deviation ≤2mV

Smart Screen

display voltage and SOC

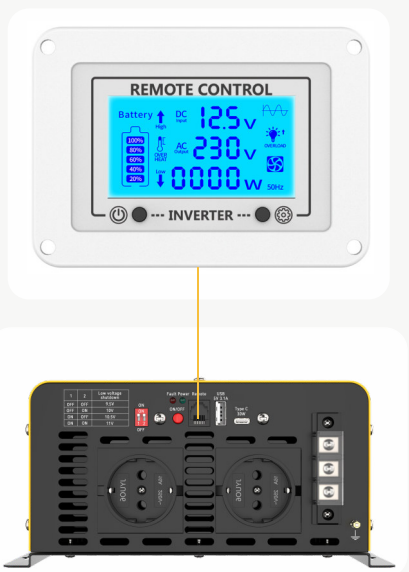
Model	LiEco 12-100	LiEco 12-200	LiEco 12-300	LiEco 24-100	LiEco 24-200
ELECTRICAL SPECIFICATIONS					
Battery Type	LiFePO4 Prismatic Cell				
Normal Capacity	1.28kWh (100Ah)	2.56kWh (200Ah)	3.84kWh (300Ah)	2.56kWh (200Ah)	5.12kWh (200Ah)
Nominal Voltage	12.8Vdc	12.8Vdc	12.8Vdc	25.6Vdc	25.6Vdc
CHARGE SPECIFICATIONS					
Recommended Charge Current	0.2C				
Max. Charge Current	100Amp	150Amp	150Amp	100Amp	100Amp
Recommended Charge Voltage	15±0.2Vdc	15±0.2Vdc	15±0.2Vdc	30±0.2Vdc	30±0.2Vdc
High Voltage Disconnect	15Vdc	15Vdc	15Vdc	30Vdc	30Vdc
High Voltage Reconnect	14. 2Vdc	14. 2Vdc	14.2Vdc	28.4Vdc	28.4Vdc
DISCHARGE SPECIFICATIONS					
Continuous Discharge Current	100Amp	150Amp	150Amp	100Amp	100Amp
Peak Discharge Current	150Amp (10s)	250Amp (10s)	250Amp (10s)	200Amp (10s)	200Amp (10s)
Disconnect Charge Current	200Amp (3s)	450Amp (3s)	450Amp (3s)	450Amp (3s)	450Amp (3s)
Low Voltage Disconnect	8.8Vdc	8.8Vdc	8.8Vdc	17.2Vdc	17.2Vdc
Discharge Cut-off Voltage	10.8Vdc	10.8Vdc	10.8Vdc	21.6Vdc	21.6Vdc
GENERAL DATA					
Dimension (W*H*D)	330*220*173 mm	522*221*238 mm	522*223*268 mm	522*221*238 mm	522*223*268 mm
Weight (KG)	10 KG	20 KG	28.5 KG	21.2 KG	32 KG
Life Span	Cycle Times: >3000 (25℃, 0.5C, 80%DOD)				
Protection Degree (℃)	IP20, Indoor Only				
Cooling Method	Natural Convection				
Mounting Method	Floor Stand				
Max. Operating Altitude	Max. 6000 Meters				
Operating Temperature Range	Charge: 0 ℃ ~ +45 ℃ , Discharge: -20 ℃~ +60 ℃				
Storage Temperature	-10 ℃~ +50 ℃				
FEATURES					
Display	Smart Display				
Warranty	3 Years				
CERTIFICATION					
Certification / Standard	UN 38.3; MSDS; RoHS				

DC-AC Power Inverter



Vital 1500/2000/3000/4000/5000

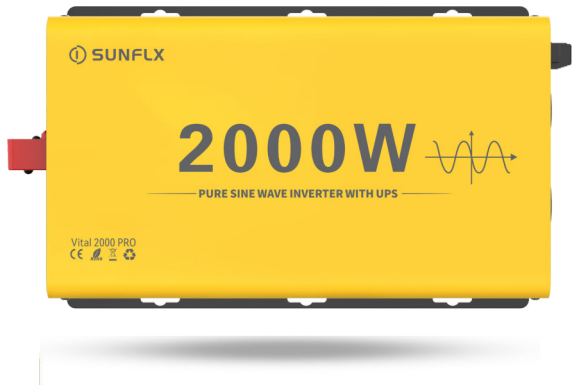
The Sunflx Vital series DC-AC inverter efficiently converts DC from batteries into AC for residential and commercial use. Its compact design allows for easy installation and integration. With a power range of 1-5kW, this inverter is perfect for powering home appliances and office equipment, ensuring a stable power supply for diverse energy needs.



- Compatible with lithium LiFePO4/lead-acid/ flooded battery
- Configurable battery shutdown voltage
- Remote monitoring of inverter status
- Supports fast charging via 30W Type-C and 5V 3.1A USB port
- Lower no load current, extending standby working time
- AC output terminal for large power load

Model	Vital 1500	Vital 2000	Vital 3000	Vital 4000	Vital 5000
Battery Type	Lithium LiFePO4/Lead-Acid/Flooded /AGM/STD/SLA/GEL/User Defined				
AC OUTPUT					
Cont. Output Power at 25℃	1500W	2000W	3000W	4000W	5000W
Surge Capacity	3000W	4000W	6000W	8000W	10000W
Output Voltage	230Vac/120Vac (±10%)				
Frequency	50/60Hz±1Hz				
Output Waveform	Pure Sine Wave				
Peak Efficiency	91%				
Overload Protection	1s@110%~200% Load; 5min@110% Load				
Total Harmonic Distortion (THD)	THD < 4% (Linear Load)				
BATTERY INPUT					
Rated Input Voltage	12/24/48Vdc				
Input Voltage Range	9.5~16Vdc /19~32Vdc /39~62Vdc				
Input Current at No Load	0.8±0.2Amp /0.4±0.1Amp /0.2±0.1Amp				
Low Input Voltage Alarm	10/10.5/11/11.5 ±0.5Vdc (*2@24Vdc; *4@48Vdc)				
Low Input Voltage Shut Down (User Settable)	9.5/10/10.5/11 ±0.5Vdc (*2@24Vdc; *4@48Vdc)				
Low Input Voltage Recovery	12.5/25/50Vdc (±0.5Vdc)				
High Input Voltage Shut Down	16/32/62Vdc (±0.5Vdc)				
High Input Voltage Recovery	15/30/60Vdc (±0.5Vdc)				
ENCLOSURE					
AC Output Socket	4 Pcs US or JP Sockets, 2 Pcs UK/AU/NZ/DE/FR Sockets Available				
AC Output Terminal	600V/40A, Pitch:13mm, Wire Range:18-10AWG				
Battery Connection Terminal	M10				
Remote Terminal	RJ11-6P4C Port for RC-1 Remote Controller				
USB Output	1*USB Port, 5V/3.1A				
Type-C Output	1*Type-C Port, 30W				
GENERAL					
Soft Start	Yes				
Cooling Way	Built-in Temperature & Power Controlled Fan Fan Turn on at 45℃ or Power Over 50% ; Fan Turn off at 42℃ and Power Less 40%				
Protection Function	Battery Low Voltage & Over Voltage, Over Load, Over Temperature, Short Circuit				
Noise	Less Than 60dB at 1Meter Distance				
Accessories	Remote Controller, Remote Control Cable, Battery Cable				
Net Dimension (LxWxH)	303*200*105 mm		363*200*105 mm	435*220*110 mm	
Net Weight	3.75 KG		4.6 KG	6 KG	
Certification / Standard	CE(IEC 61000, IEC62109); RoHS				

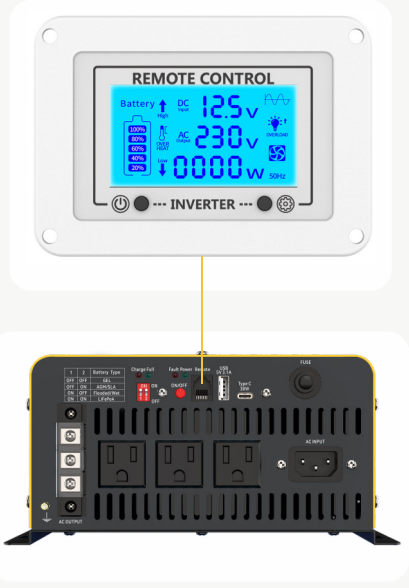
DC-AC Power Inverter



Vital Pro 1500/2000/3000/4000 UPS

The Sunflx Vital Pro series DC-AC inverter efficiently converts DC from batteries into AC for residential and commercial use. Its compact design allows for easy installation and integration. With a power range of 1-4kW, it's perfect for powering home appliances and office equipment. The UPS function ensures a quick 10ms transition, keeping critical loads powered without interruption.

CE RoHS IEC



- Compatible with lithium LiFePO4/lead-acid/ flooded battery
- Unique hardware design for safer bypass switching
- Superfast battery charging speed
- Remote monitoring of inverter status
- Optional charging algorithm for different battery types
- Lower no load current, extending standby working time
- UPS function, 10ms transition
- Supports fast charging via 30W Type-C and 5V 3.1A USB port

Model	Vital 1500 Pro	Vital 2000 Pro	Vital 3000 Pro	Vital 4000 Pro
Battery Type	Lithium LiFePO4/Lead-Acid/Flooded /AGM/STD/SLA/GEL/User Defined			
AC OUTPUT				
Cont. Output Power at 25℃	1500W	2000W	3000W	4000W
Surge Capacity	3000W	4000W	6000W	8000W
Output Voltage	230Vac/120Vac (±10%)			
Frequency	50/60Hz±1Hz			
Output Waveform	Pure Sine Wave			
Peak Efficiency	91%			
Overload Protection	1s@110%~200% Load; 5min@110% Load			
Total Harmonic Distortion (THD)	THD < 4%(Linear Load)			
Transfer Time between AC and DC	15ms			
AC CHARGER				
Charging Algorithm	3-Step			
AC Input Voltage	230Vac/120Vac (±10%)			
Max. AC Charging Current	20Amp /15Amp /10Amp			
Bulk Charging Voltage	14.2~14.7Vdc (*2@24Vdc;*4@48Vdc)			
Floating Charging Voltage	13.6~14.6Vdc (*2@24Vdc;*4@48Vdc)			
BATTERY INPUT				
Rated Input Voltage	12/24/48Vdc			
Input Voltage Range	9.5~16Vdc /19~32Vdc /39~62Vdc			
Input Current at No Load	0.8±0.2Amp /0.4±0.1Amp /0.2±0.1Amp			
Low Input Voltage Alarm	10/20/41Vdc (±0.5Vdc)			
Low Input Voltage Shut Down	9.5/19/39Vdc (±0.5Vdc)			
Low Input Voltage Recovery	12.5/25/50Vdc (±0.5Vdc)			
High Input Voltage Shut Down	16/32/62Vdc (±0.5Vdc)			
High Input Voltage Recovery	15/30/60Vdc (±0.5Vdc)			
ENCLOSURE				
AC Output Socket	3 Pcs US or JP Sockets, 2 Pcs UK/AU/NZ/DE/FR Sockets Available			
AC Output Terminal	AC Screw Terminal (Only for US or JP), 13mm, 600V/40A,Wire Range: 18-10AWG			
Battery Connection Terminal	M10			
USB Output	1*USB Port, 5V/3.1A			
Type-C	1*Type-C Port, 30W			
GENERAL				
Cooling Way	Built-in Temperature & Power Controlled Fan Fan Turn on at 45℃ or Power Over 50% ; Fan Turn off at 42℃ and Power Less 40%			
Protection Function	Battery Low Voltage & Over Voltage, Over Load, Over Temperature, Short Circuit			
Noise	Less Than 60dB at 1Meter Distance			
Accessories	Remote Controller, Remote Control Cable, Battery Cable			
Net Dimension (L*W*H)	430*200*110 mm			
Net Weight	4.95 KG			
Certification / Standard	CE (IEC 61000,IEC62109); RoHS			

Solar Charge Controller



MC-MPPT
20A/30A/40A/50A

The Sunflx MC Series Solar Charge Controller effectively regulates the voltage and current from solar panels to the battery. It features a high-efficiency MPPT control algorithm, achieving up to 99.8% MPPT efficiency and 98% overall conversion efficiency, while also supporting the standard Modbus protocol for versatile communication.

CE RoHS IEC

- Built-in MPPT algorithm with 99.9% efficiency, 30% more efficient than PWM mode
- Built-in battery temperature detection feature
- PV short-circuit protection and charge overcurrent protection
- Battery type selectable: AGM; GEL; WET; Lifepo4
- RS485 Modbus protocol for convenient communication
- External LCD or Bluetooth module for settings and data viewing

Model	MC 2420N10	MC 2430N10	MC 2440N10	MC 2450N10
System Voltage	12/24Vdc			
Zero Load Loss	<10mA			
Battery Voltage	9~32Vdc			
Max. PV Open Circuit Voltage	92V(25℃); 100V (Lowest Ambient Temperature)			
Max.Power Point Voltage Range	Battery Voltage +2~72Vdc			
Rated Charging Current	20A	30A	40A	50A
Max. PV Input Power	260W/12Vdc 520W/24Vdc	400W/12Vdc 800W/24Vdc	550W/12Vdc 1100W/24Vdc	660W/12Vdc 1320W/24Vdc
Charging Conversion Efficiency	≤ 98%			
MPPT Tracking Efficiency	> 99%			
Temperature Compensation Coefficient	-3mv/℃ /2V (Default); Lithium Battery Features No Temperature Compensation			
Operating Temperature	-35℃~+60℃			
Protection Degree	IP32			
Weight	0.65 KG	0.83 KG	1.04 KG	1.335 KG
Communication Mode	TTL Serial Communication			
Altitude	≤ 3000 Meters			
Dimension (W*H*D)	150*105.6*61.5 mm	150*105.6*67.5 mm	183*127*65.5 mm	183*127*69.5 mm

Solar Charge Controller



MC-MPPT
60A/70A/85A/100A

The Sunflx MC Series Solar Charge Controller efficiently regulates the voltage and current from solar panels to the battery, offering 30% higher efficiency than PWM mode. Key features include PV short-circuit protection, charge over-current protection, built-in Bluetooth with RS485 Modbus protocol, and automatic identification of 12V, 24V, 36V, and 48V systems, and support Max. 250V PV input.

- Built-in MPPT algorithm with 99.9% efficiency, 30% more efficient than PWM mode
- Built-in battery temperature detection feature
- PV short-circuit protection and charge overcurrent protection
- Battery type selectable: AGM; GEL; WET; Lifepo4
- RS485 Modbus protocol for convenient communication
- Standard LCD screen for easy parameter setting and viewing
- Historical data storage for up to 5 years

SUNFLX

Model	MC 4860N15	MC 4870N15	MC 4885N15	MC 48100N15	MC 4860N25	MC 4870N25	MC 4885N25	MC 48100N15
System Voltage	12/24/36/48Vdc Auto							
Static Power Consumption	0.54W							
Max. PV Array Open Circuit Voltage	150Vdc				250Vdc			
Voltage Range at MPP (Max. Power Point)	Battery Voltage +2~120Vdc				Battery Voltage +2~180Vdc			
Charging Current	60A	70A	85A	100A	60A	70A	85A	100A
Solar Panel Power (12V Battery)	800W	920W	1100W	1320W	800W	920W	1100W	1320W
Solar Panel Power (24V Battery)	1600W	1840W	2200W	2640W	1600W	1840W	2200W	2640W
Solar Panel Power (36V Battery)	/	/	3300W	3960W	/	/	3300W	3960W
Solar Panel Power (48V Battery)	3200W	3680W	4400W	5280W	3200W	3680W	4400W	5280W
Support Battery Type	Lead-Acid Batteries, Colloidal Batteries, Open-Ended Batteries, Lithium Batteries							
Temperature Compensation Coefficient	-3mV/° C/2V (Default, Settable Lead-Acid); No Temperature Compensation for Lithium Battery							
Operating Temperature Range	-35°C~60°C							
Humidity	95%, No Condensation							
Protection Degree	IP32							
Weight	3.6 KG		5.7 KG		3.6 KG		5.7 KG	
Communication Mode	TTL(3.3V) /RS485/Bluetooth Module							
Dimension (W*H*D)	Conventional: 266*194*119 mm MC4: 266*226*119 mm		314*227*121 mm		Conventional: 266*194*119 mm MC4: 266*226*119 mm		314*227*121 mm	
Terminal Blocks	35mm² / 2AWG							

Solar Charge Controller



ML-MPPT
20A/30A/40A/60A

The Sunflx ML Series Solar Charge Controller efficiently regulates the voltage and current from solar panels to the battery, offering 30% higher efficiency than PWM mode. Key features include PV short-circuit protection, charge over-current protection, built-in RS485 Modbus protocol, automatic identification of 12V, 24V, 36V, and 48V systems , and Max.PV input upto 150v.

- Built-in MPPT algorithm with 99.9% efficiency, 30% more efficient than PWM mode
- Built-in battery temperature detection feature
- PV short-circuit protection and charge overcurrent protection
- Battery type selectable: AGM; GEL; WET; Lifepo4
- RS485 Modbus protocol for convenient communication
- Standard LCD screen for easy parameter setting and viewing
- Historical data storage for up to 5 years

SUNFLX

Model	ML 2420	ML 2430	ML 2440	ML 2830	ML 4860
System Voltage	12/24Vdc Auto			12/24/36/48Vdc Auto	
No-Load Loss	0.7~1.2W			0.7~1.2W	
Battery Voltage	9~35Vdc			9~70Vdc	
Max. PV Array Open Circuit Voltage	100Vdc (25℃) 90Vdc (-25℃)			<150Vdc	150Vdc (25℃) 145Vdc (-25℃)
Max. Power Point Voltage Range	Battery Voltage+2~75Vdc			Battery Voltage+2~120Vdc	
Rated Charging Current	20A	30A	40A	30A	60A
Rated Load Current	20A			20A	
Max. Capacitive Load Capacity	10000uF			10000uF	
Max.Photovoltaic System Input Power	260W/12Vdc 520W/24Vdc	400W/12Vdc 800W/24Vdc	550W/12Vdc 1100W/24Vdc	400W/12Vdc 800W/24Vdc 1200W/36Vdc 1600W/48Vdc	800W/12Vdc 1600W/24Vdc 2400W/36Vdc 3200W/48Vdc
Conversion Efficiency	≤98%				
MPPT Tracking Efficiency	>99%				
Temperature Compensation Factor	-3mv/℃ /2V (Default)				
Operating Temperature	-35℃~+45℃				
Protection Degree	IP32				
Weight	1.4 KG	2 KG	2 KG	2.3 KG	3.6 KG
Communication Method	RS232			RS485, Rs232	
Altitude	≤ 3000 Meters				
Dimension (H*W*D)	210*151*59.5 mm	238*173*72.5 mm	238*173*72.5 mm	226*182*81 mm	285*205*93 mm

Solar Charge Controller



DCK-PWM
10A/20A/30A

The Sunflx DCK Series Solar Charge Controller regulates the voltage and current from solar panels to the battery. It features an LCD display with backlight, a 4-stage charging management system(Bulk, ABS, Float, and Equalize every 2 months), and a temperature compensation function for optimal battery performance.

CE RoHS IEC

Multiple work modes and charging management

Standard LCD screen for easy parameter setting and viewing

Battery type selectable: AGM; GEL; WET; Lifepo4

PV short-circuit protection and charge overcurrent protection

Built-in battery temperature detection feature

Model	DCK 1210	DCK 1220	DCK 1230	DCK 4820	DCK 4830
Battery Voltage	12/24Vdc Auto Select			48Vdc	
Charge & Load Current	10A	20A	30A	20A	30A
Charge Mode	PWM, Time And Lighting Control				
Max. Solar Voltage	55Vdc			100Vdc	
Max. Output Power	120W/240W	240W/480W	360W/720W	960W	1440W
Protections	Reverse Polarity Connection of The Solar Panels; Reverse Polarity Connection of The Battery; Over-Charge; Over-Discharge; Over-Load; Over-Temperature; Short-Circuit				
Overload Protection	Shut Down After 60s in case of 110%-130% Load; Shut Down After 5s in case of 130%-160% Load; Short Circuit: Immediate Shut.				
Temperature Protection	1. When Temperature up to 85℃ , The Controller Will Enter into The First Protection Phase: It Will Lower The PV Input Current in Order to Lower The Temperature. There Is No Alarm on The LCD Display. 2. When Temperature up to 90℃ , The Controller Will Enter into The Second Protection Phase: The PV Input Current Will Be Reduced to Zero, The Load Output Will Be Switched off And A High Temperature Alarm Icon Wil Show on The LCD. 3. After The Temperature Has Decreased to Less Than 82℃ , Controller Will Be Back to Normal Working.				
Self-Consumption	<10mA				
USB	5V 2A (Total From 2 USB Outputs)				
Terminal Size	6mm²/AWG10				
Mounting	Vertical Wall Mount, Indoor Only				
Cooling	Natural Convection				
Protection Degree	IP20				
Operating Temperature	-20° C~ +50° C (Full Load)				
Humidity Range	≤ 95% (N.C.)				
Dimension (W*H*D)	150*85*35 mm				
Weight	0.23 KG				

Solar Charge Controller



DCK-PWM
40A/50A/60A

The Sunflx DCK Series Solar Charge Controller regulates the voltage and current from solar panels to the battery. It features an LCD display with backlight, a 4-stage charging management system (Bulk, ABS, Float, and Equalize every 2 months), and a temperature compensation function for optimal battery performance.

CE RoHS IEC

Multiple work modes and charging management

Standard LCD screen for easy parameter setting and viewing

Battery type selectable: AGM; GEL; WET; Lifepo4

PV short-circuit protection and charge overcurrent protection

Built-in battery temperature detection feature

Model	DCK 1240	DCK 1250	DCK 1260	DCK 4840	DCK 4850	DCK 4860
Battery Voltage	12/24Vdc Auto Select			48Vdc		
Charge & Load Current	40A	50A	60A	40A	50A	60A
Charge Mode	PWM, Time And Lighting Control					
Max. Solar Voltage	47Vdc			100Vdc		
Max. Output Power	480W/960W	600W/1200W	720W/1440W	1920W	2400W	2880W
Protections	Reverse Polarity Connection of The Solar Panels; Reverse Polarity Connection of The Battery; Over-Charge; Over-Discharge; Over-Load; Over-Temperature; Short-Circuit					
Overload Protection	Shut Down After 60s in case of 110%-130% Load; Shut Down After 5s in case of 130%-160% Load; Short Circuit: Immediate Shut.					
Temperature Protection	1. When Temperature up to 85℃ , The Controller Will Enter into The First Protection Phase: It Will Lower The PV Input Current in Order to Lower The Temperature. There Is No Alarm on The LCD Display. 2. When Temperature up to 90℃ , The Controller Will Enter into The Second Protection Phase: The PV Input Current Will Be Reduced to Zero, The Load Output Will Be Switched off And A High Temperature Alarm Icon Wil Show on The LCD. 3. After The Temperature Has Decreased to Less Than 82℃ , Controller Will Be Back to Normal Working.					
Self-Consumption	<15mA					
USB	5V 1A					
Temperature Compensation	Yes					
Operating Temperature	-20℃ ~ +50° C (Full Load)					
Humidity Range	≤ 95% (N.C.)					
Dimension (W*H*D)	220*126*63 mm					
Weight	1 KG					

Solar Charge Controller



DKTD-PWM
5A/10A/20A/30A

The Sunflx DKTD Series Solar Charge Controller regulates the voltage and current from solar panels to the battery. It features a 4-stage charging management system (Bulk, ABS, Float, and Equalize upon low voltage reconnect) and a one-button setting for easy operation.

CE RoHS IEC

Multiple work modes and charging management

PV short-circuit protection and charge overcurrent protection

Battery type selectable: AGM; GEL; WET; Lifepo4

Built-in battery temperature detection feature

Model	DKTD 1205	DKTD 1210	DKTD 1220	DKTD 1230	DKTD 4820	DKTD 4830	DKTD 6020	DKTD 6030
Battery Voltage	12/24Vdc				48Vdc		60Vdc	
Charge & Load Current	5A	10A	20A	30A	20A	30A	20A	30A
Charge Mode	PWM, Time And Lighting Control							
Max. Solar Voltage	55V				100V		120V	
Max. Output Power	60W/120W	120W/240W	240W/480W	360W/720W	960W	1440W	1200W	1800W
Protections	Reverse Polarity Connection of The Solar Panels; Reverse Polarity Connection of The Battery; Over-Charge; Over-Discharge; Over-Load; Over-Temperature; Short-Circuit							
Overload Protection	Shut Down After 60s in Case of 110%-130% Load; Shut Down After 5s in Case of 130%-160% Load; Short Circuit: Immediate Shut.							
Self-Consumption	<5mA				<15mA		<30mA	
Operating Temperature	-20°C ~ +50° C (Full Load)							
Humidity Range	≤ 95% (N.C.)							
Dimension (W*H*D)	140*90.5*28.5 mm							
Weight	0.21 KG							

Application Cases











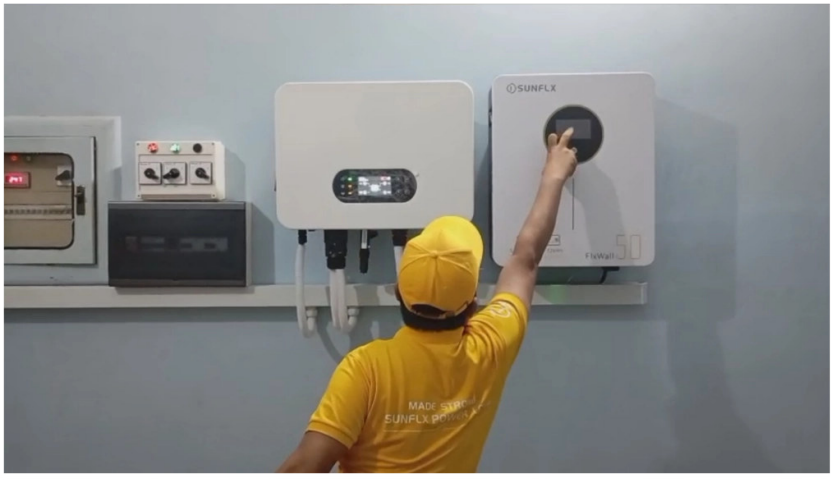



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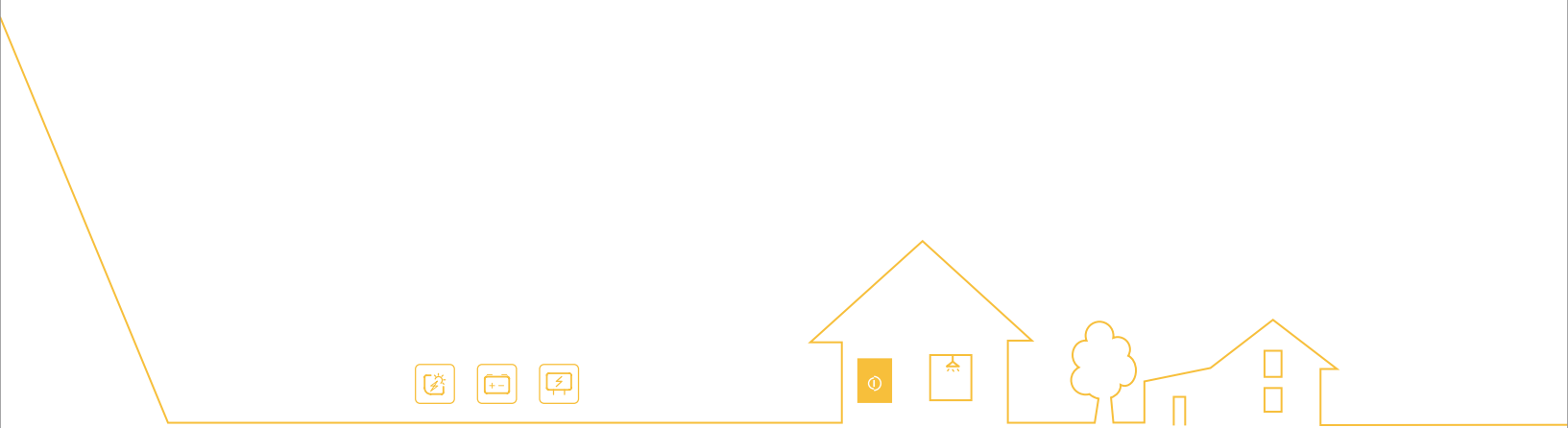

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