

SGFAR

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 20 kW, battery storage systems, C&I and utility ESS solutions, microinverter system and SOFAR Monitor for residential, commercial & industrial, and utility-scale applications.

Founded in 2013, SOFAR has always insisted on independent innovation, established a global R&D network with three R&D centers and over 25% of its workforces assigned to R&D, thus gradually establishing the holistic technology and product R&D system.

SOFAR always insists on globalization thinking and localization action since its establishment and now has two global manufacturing bases of 16 inverter production lines and 4 battery production lines, with an annual production capacity of 14GW PV & storage inverters & 1 GWh batteries. It has built an extensive service network of over 20 branch offices worldwide, such as the United Kingdom, Poland, Germany, South Korea, Pakistan, Australia, and so on. By the end of 2023, SOFAR had shipped over 31 GW inverters to more than 100 countries and regions around the world.

As the world's fastest-growing solar energy brand, SOFAR stands firmly among the mainstream solar energy brands with a compound annual growth rate of over 100% from 2020 till 2022. Due to the abilities in cutting-edge solar technologies, SOFAR has achieved China "CQC" certification, Chinese Top 5 String Inverter Brand, TOP5 Global Hybrid Inverter Provider and and entitled by EuPD as TOP Brand PV Inverter in India, Poland, the U.K., Italy and Brazil.

Looking forward, SOFAR will adhere to its mission of "Technology Drives Green Energy" and its value of Virtue & Integrity, Collaboration & Effectiveness to build its core competitiveness in independent innovation in Net-Zero era, expecting to accelerate the global clean energy transition, leveraging its leading solar and energy storage products and solutions.

Learn more about SOFAR by visiting: <https://www.sofarsolar.com/>.

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PRODUCT PORTFOLIO

Single-phase Inverter

02-08

- SOFAR 1100TL-G3 / 1600TL-G3 / 2200TL-G3 / 2700TL-G3 / 3000TL-G3 / 3300TL-G3
 - SOFAR 3KTLM-G3 / 3.6KTLM-G3 / 4KTLM-G3 / 4.6KTLM-G3 / 5KTLM-G3 / 5KTLM-G3-A / 6KTLM-G3
 - SOFAR 7KTLM-G3 / 7.7KTLM-G3 / 8KTLM-G3 / 9KTLM-G3 / 10KTLM-G3 / 10.5KTLM-G3
-

Three-phase Inverter

10-24

- SOFAR 3.3KTLX-G3 / 4.4KTLX-G3 / 5.5KTLX-G3 / 6.6KTLX-G3 / 8.8KTLX-G3 / 11KTLX-G3 / 10KTLX-G3-A / 12KTLX-G3
 - SOFAR 15KTLX-G3 / 17KTLX-G3 / 20KTLX-G3 / 22KTLX-G3 / 24KTLX-G3
 - SOFAR 25KTLX-G3 / 30KTLX-G3 / 33KTLX-G3 / 36KTLX-G3 / 40KTLX-G3 / 45KTLX-G3 / 50KTLX-G3
 - SOFAR 60KTLX-G3 / 80KTLX-G3
 - SOFAR 100KTLX-G4 / 110KTLX-G4 / 125KTLX-G4 / 125KTLX-G4-A
 - SOFAR 255KTL-HV
 - SOFAR 250KTLX0 / SOFAR 330KTLX0 / SOFAR 350KTLX0
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Energy Storage System

26-34

- HYD 5KTL-3PH / 6KTL-3PH / 8KTL-3PH / 10KTL-3PH / 10KTL-3PH-A / 15KTL-3PH / 20KTL-3PH
 - BTS E5-DS5 / E10-DS5 / E15-DS5 / E20-DS5
 - ESI 3K-S1 / 3.68K-S1 / 4K-S1 / 4.6K-S1 / 5K-S1 / 6K-S1
 - BT5000A
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Smart Energy

36-46

- LSW-3 / LSE-4W / WF-BLE
 - PSC100*
 - CH1000
 - EV 11K-AC-02
 - SofarCloud
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01 Single-phase Inverter

SOFAR 1100-3300TL-G3

1100 / 1600 / 2200 / 2700 / 3000 / 3300 W

SINGLE-PHASE SINGLE MPPT



Product advantages

- Max. efficiency up to 97.7%
- Lightweight, quick and easy to install
- 140% DC overload
- IP65 design for outdoor
- RS485
- Feed-in limitation function
- Optional: Wi-Fi/Ethernet



Model	SOFAR 1100TL-G3	SOFAR 1600TL-G3	SOFAR 2200TL-G3	SOFAR 2700TL-G3	SOFAR 3000TL-G3	SOFAR 3300TL-G3
Input (DC)						
Max. input voltage	500V			550V		
Rated input voltage				360V		
Start-up voltage				70V		
MPPT operating voltage range	50-500V			50-550V		
Number of MPP trackers				1		
Number of DC inputs				1		
Max. input MPPT current				12A		
Max. input short circuit current				15A		
Output (AC)						
Rated output power	1100W	1600W	2200W	2700W	3000W	3300W
Max. apparent power	1100VA	1600VA	2200VA	2700VA	3000VA	3300VA
Max. output current	5.3A	7.7A	10.6A	13A	14.5A	16A
Rated output voltage	L/N/PE, 230Vac					
Output voltage range	180Vac-276Vac					
Rated output frequency	50/60Hz					
Output frequency range	45Hz-55Hz/55Hz-65Hz					
Active power adjustable range	0~100%					
THDi	<3%					
Power factor	1 (adjustable +/-0.8)					
Efficiency						
Max. efficiency	97.5%			97.7%		
European efficiency	96.9%			97.2%		
Protection						
DC reverse polarity protection				Yes		
Anti-islanding protection				Yes		
Leakage current protection				Yes		
Ground fault monitoring				Yes		
PV-array string fault monitoring				Yes		
DC switch				Yes		
SPD	PV: type III, AC: type III					
General Data						
Ambient temperature range	-30°C~+60°C					
Self-consumption at night	<1W					
Topology	Transformerless					
Degree of protection	IP65					
Allowable relative humidity range	0~100%					
Max. operating altitude	2000m					
Cooling	Natural					
Dimension (W×H×D)	303×260.5×118mm			321×260.5×131.5mm		
Weight	5.5kg			6.3kg		
Display	LCD					
Communication	RS485/Wi-Fi					
Standard	IEC/EN 61000-6-1/3, IEC/EN 61000-3-2/3, IEC 62116, IEC 61727, IEC 61683, IEC 60068-1/2/14/30, IEC/EN 62109-1/2, VDE-AR-N 4105, VDE V 0126-1-1, V 0124-100, C10/11, C98, EN 50549-1					

*All specifications are subject to change without notice.

SOFAR 3-6KTLM-G3

3 / 3.6 / 4 / 4.6 / 5 / 6 kW

SINGLE-PHASE DUAL MPPT



Product advantages

- Max. efficiency up to 98.4%
- Compact design, lightweight
- Two MPPTs with 150% DC overload
- Natural cooling, no fans, low noise
- Feed-in limitation function
- RS485/Bluetooth, Optional: Wi-Fi/Ethernet



Model	SOFAR 3KTLM-G3	SOFAR 3.6KTLM-G3	SOFAR 4KTLM-G3	SOFAR 4.6KTLM-G3	SOFAR 5KTLM-G3	SOFAR 5KTLM-G3-A	SOFAR 6KTLM-G3
Input (DC)							
Max. input voltage	600V						
Rated input voltage	380V						
Start-up voltage	90V						
MPPT operating voltage range	80V-550V						
Number of MPP trackers	2						
Number of DC inputs	1 for each MPPT						
Max. input MPPT current	15A/15A						
Max. input short circuit current	22.5A/22.5A						
Output (AC)							
Rated output power	3000W	3680W	4000W	4600W	5000W	5000W	6000W
Max. apparent power	3300VA	3680VA	4400VA	4600VA	5500VA	5000VA	6000VA
Max. output current	15A	16A	20A	23A	25A	21.7A	29A
Rated output voltage	L/N/PE, 230Vac						
Output voltage range	180Vac-276Vac						
Rated output frequency	50/60Hz						
Output frequency range	45Hz-55Hz/55Hz-65Hz						
Active power adjustable range	0~100%						
THDi	<3%						
Power factor	1 (adjustable +/-0.8)						
Efficiency							
Max. efficiency	98.2%			98.4%			
European efficiency	97.3%			97.5%			
Protection							
DC reverse polarity protection	Yes						
Anti-islanding protection	Yes						
Leakage current protection	Yes						
Ground fault monitoring	Yes						
PV-array string fault monitoring	Yes						
DC switch	Yes						
SPD	PV: type III, AC: type III						
General Data							
Ambient temperature range	-30℃~+60℃						
Self-consumption at night	<1W						
Topology	Transformerless						
Degree of protection	IP65						
Allowable relative humidity range	0~100%						
Max. operating altitude	4000m						
Cooling	Natural						
Dimension (W×H×D)	349×344×164mm						
Weight	9.2kg			10kg			
Display	LCD & Bluetooth +APP						
Communication	RS485/Wi-Fi						
Standard	IEC/EN 61000-6-2/3, IEC/EN 61000-3-2/3, IEC/EN 61000-3-11/12,IEC 62116, IEC 61727, IEC 61683, IEC 60068-1/2/14/30, IEC/EN 62109-1/2, VDE-AR-N 4105, VDE V 0126-1-1, C10/11, UNE 217002: 2020, G98/G99, EN 50549-1, ANRE 208						

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SOFAR 7-10.5KTLM-G3

7 / 7.7 / 8 / 9 / 10 / 10.5 kW

SINGLE-PHASE THREE MPPTS



Product advantages

- Max. efficiency up to 98.1%
- Low start-up voltage, wide MPPT voltage range
- Compatible with 500 W+ modules
- Natural cooling, no fans, low noise
- Prolonged AC overload compatibility (110%)



Model	SOFAR 7KTLM-G3	SOFAR 7.7KTLM-G3	SOFAR 8KTLM-G3	SOFAR 9KTLM-G3	SOFAR 10KTLM-G3	SOFAR 10.5KTLM-G3
Input (DC)						
Max. input voltage	600V					
Rated input voltage	360V					
Start-up voltage	90V					
MPPT operating voltage range	80V-550V					
Number of MPP trackers	3					
Number of DC inputs	3					
Max. input MPPT current	20A/16A/16A					
Max. input short circuit current	30A/25A/25A					
Output (AC)						
Rated output power	7000W	7700W	8000W	9000W	10000W	10500W
Max. apparent power	7700VA	7700VA	8800VA	9900VA	10000VA	10500VA
Max. output current	35A	35A	40A	45A	46A	46A
Rated output voltage	L/N/PE, 230Vac					
Output voltage range	180Vac-276Vac					
Rated output frequency	50/60Hz					
Output frequency range	45Hz-55Hz/55Hz-65Hz					
Active power adjustable range	0-100%					
THDi	<3%					
Power factor	1 (adjustable +/-0.8)					
Efficiency						
Max. efficiency	98.1%					
European efficiency	97.3%					
Protection						
DC reverse polarity protection	Yes					
Anti-islanding protection	Yes					
Leakage current protection	Yes					
Ground fault monitoring	Yes					
PV-array string fault monitoring	Yes					
DC switch	Yes					
SPD	PV: type II, AC: type III					
General Data						
Ambient temperature range	-30℃~+60℃					
Self-consumption at night	<1W					
Topology	Transformerless					
Degree of protection	IP65					
Allowable relative humidity range	0-100%					
Max. operating altitude	4000m					
Cooling	Natural					
Dimension (W×H×D)	468×380×187 mm					
Weight	17.5kg			18.5kg		
Display	LCD & Bluetooth +APP					
Communication	RS485/Wi-Fi					
Standard	IEC/EN 61000-6-1/3, IEC/EN 61000-3-11/12, IEC 62116, IEC 61727, IEC 61683, IEC 60068-1/2/14/30, IEC/EN 62109-1/2, G99, VDE V 0126-1-1, EN 50549-1, ANRE 208					

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02 Three-phase Inverter

SOFAR 3.3-12KTLX-G3

3.3 / 4.4 / 5.5 / 6.6 / 8.8 / 11 / 10 / 12 kW

THREE-PHASE DUAL MPPT



Product advantages

- Max. efficiency up to 98.5%
- Low start-up voltage, wide MPPT voltage
- Maximum DC input voltage 1100 V
- Smart string level monitoring
- Remote firmware upgrade
- Natural cooling, no fans, low noise
- Type II SPD for both DC and AC side



Model	SOFAR 3.3KTLX-G3	SOFAR 4.4KTLX-G3	SOFAR 5.5KTLX-G3	SOFAR 6.6KTLX-G3	SOFAR 8.8KTLX-G3	SOFAR 11KTLX-G3	SOFAR 10KTLX-G3-A	SOFAR 12KTLX-G3
Input (DC)								
Max. input voltage	1100V							
Rated input voltage	650V							
Start-up voltage	160V							
MPPT operating voltage range	140V-1000V							
Number of MPP trackers	2							
Number of DC inputs	1/1						1/2	
Max. input MPPT current	15A/15A						15A/30A	
Max. input short circuit current	22.5A/22.5A						22.5A/45A	
Output (AC)								
Rated output power	3000W	4000W	5000W	6000W	8000W	10000W	10000W	12000W
Max. apparent power	3300VA	4400VA	5500VA	6600VA	8800VA	11000VA	10000VA	13200VA
Max. output current	5A	6.7A	8.3A	10A	13.3A	16.7A	15.2A	20A
Rated output voltage	3/N/PE, 230/400Vac							
Output voltage range	310Vac-480Vac							
Rated output frequency	50/60Hz							
Output frequency range	45Hz-55Hz/55Hz-65Hz							
Active power adjustable range	0~100%							
THDi	<3%							
Power factor	1 (adjustable +/-0.8)							
Efficiency								
Max. efficiency	98.40%				98.50%			
European efficiency	97.50%				98.00%			
Protection								
DC reverse polarity protection	Yes							
Anti-islanding protection	Yes							
Leakage current protection	Yes							
Ground fault monitoring	Yes							
PV-array string fault monitoring	Yes							
DC switch	Yes							
SPD	PV: type II, AC: type II							
General Data								
Ambient temperature range	-30℃~+60℃							
Self-consumption at night	<1W							
Topology	Transformerless							
Degree of protection	IP65							
Allowable relative humidity range	0~100%							
Max. operating altitude	4000m							
Cooling	Natural							
Dimension (W×H×D)	430×385×182mm							
Weight	17kg					18kg		
Display	LCD & Bluetooth +APP							
Communication	RS485/Wi-Fi							
Standard	IEC/EN 61000-6-1/3, IEC/EN 61000-3-2/3, IEC/EN 61000-3-11/12, IEC 62116, IEC 61727, IEC 61683, IEC 60068-1/2/14/30, IEC/EN 62109-1/2, G98/G99, VDE-AR-N 4105, VDE V 0126-1-1, EN 50549-1, UNE 217002-2020							

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SOFAR 15-24KTLX-G3

15 / 17 / 20 / 22 / 24 kW

THREE-PHASE DUAL MPPT



Product advantages

- Max. efficiency up to 98.6%
- Low start-up voltage, wide MPPT voltage
- Maximum DC input voltage 1100 V
- Smart string level monitoring
- Type II SPD for both DC and AC side
- Remote firmware upgrade
- 110% long-time overload ability



Model	SOFAR 15KTLX-G3	SOFAR 17KTLX-G3	SOFAR 20KTLX-G3	SOFAR 22KTLX-G3	SOFAR 24KTLX-G3
Input (DC)					
Max. input voltage	1100V				
Rated input voltage	650V				
Start-up voltage	160V				
MPPT operating voltage range	140V-1000V				
Number of MPP trackers	2				
Number of DC inputs	2/2				
Max. input MPPT current	26A/26A				
Max. input short circuit current	36A/36A				
Output (AC)					
Rated output power	15000W	17000W	20000W	22000W	24000W
Max. apparent power	16500VA	18700VA	22000VA	24200VA	26400VA
Max. output current	23.9A	27.1A	31.9A	35.1A	38.3A
Rated output voltage	3/N/PE, 230V/400Vac				
Output voltage range	310Vac-480Vac				
Rated output frequency	50/60Hz				
Output frequency range	45Hz-55Hz/55Hz-65Hz				
Active power adjustable range	0~100%				
THDi	<3%				
Power factor	1 (adjustable +/-0.8)				
Efficiency					
Max. efficiency	98.6%				
European efficiency	98.2%				
Protection					
DC reverse polarity protection	Yes				
Anti-islanding protection	Yes				
Leakage current protection	Yes				
Ground fault monitoring	Yes				
PV-array string fault monitoring	Yes				
DC switch	Yes				
SPD	PV: type II, AC: type II				
General Data					
Ambient temperature range	-30℃~+60℃				
Self-consumption at night	<1W				
Topology	Transformerless				
Degree of protection	IP65				
Allowable relative humidity range	0~100%				
Max. operating altitude	4000m				
Cooling	Smart air cooling				
Dimension (W×H×D)	520×430×198mm				
Weight	20kg	22kg		23kg	
Display	LCD & Bluetooth +APP				
Communication	RS485/Wi-Fi				
Standard	IEC/EN 61000-6-1/3, IEC/EN 61000-3-11/12, IEC 62116, IEC 61727, IEC 61683, IEC 60068-1/2/14/30, IEC/EN 62109-1/2, G99, VDE-AR-N 4105, VDE V 0126-1-1, EN 50549-1, NRS 097-2-1				

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SOFAR 25-50KTLX-G3

25 / 30 / 33 / 36 / 40 / 45 / 50 kW

THREE-PHASE THREE TO FOUR MPPTS



Product advantages

- Max. efficiency up to 98.80%
- Up to 4 MPPTs with DC overload capability (up to 150%)
- Type II SPD for both DC and AC side
- Prolonged AC overload capability (110%)
- Low start-up voltage, wide MPPT voltage range
- Compatible with 500 W+ modules
- I-V curve scanning function



Model	SOFAR 25KTLX-G3	SOFAR 30KTLX-G3	SOFAR 33KTLX-G3	SOFAR 36KTLX-G3	SOFAR 40KTLX-G3	SOFAR 45KTLX-G3	SOFAR 50KTLX-G3
Input (DC)							
Max. input voltage	1100V						
Rated input voltage	620V						
Start-up voltage	200V						
MPPT operating voltage range	180V-1000V						
Number of MPP trackers	3				4		
Number of DC inputs	2 for each MPPT						
Max. input MPPT current	3×40A				4×40A		
Max. input short circuit current	3×50A				4×50A		
Output (AC)							
Rated output power	25000W	30000W	33000W	36000W	40000W	45000W	50000W
Max. apparent power	28000VA	34000VA	37000VA	40000VA	44000VA	50000VA	55000VA
Max. output current	42.4A	51.5A	56A	60.6A	66.7A	75.8A	83.3A
Rated output voltage	3/N/PE, 230/400Vac						
Output voltage range	310Vac-480Vac						
Rated output frequency	50/60Hz						
Output frequency range	45Hz-55Hz/55Hz-65Hz						
Active power adjustable range	0-100%						
THDi	<3%						
Power factor	1 (adjustable +/-0.8)						
Efficiency							
Max. efficiency	98.6%				98.8%		
European efficiency	98.2%				98.2%		
Protection							
DC reverse polarity protection	Yes						
Anti-islanding protection	Yes						
Leakage current protection	Yes						
Ground fault monitoring	Yes						
PV-array string fault monitoring	Yes						
DC switch	Yes						
SPD	PV: type II, AC: type II						
General Data							
Ambient temperature range	-30℃~+60℃						
Self-consumption at night	<3W						
Topology	Transformerless						
Degree of protection	IP65						
Allowable relative humidity range	0-100%						
Max. operating altitude	4000m						
Cooling	Smart air cooling						
Dimension (W×H×D)	585×480×220mm						
Weight	36kg				37kg		
Display	LCD & Bluetooth +APP						
Communication	RS485/Wi-Fi						
Standard	IEC/EN 61000-6-1/2/3/4, IEC 62116, IEC 61727, IEC 61683, IEC 60068-1/2/14/30, IEC/EN 62109-1/2, G99, VDE-AR-N 4105, VDE V 0126-1-1, EN 50549-1, NRS 097-2-1, UNE 217002-2020						

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SOFAR 60-80KTLX-G3

60 / 80 kW

THREE-PHASE SIX MPPTS



Product advantages

- Max. efficiency up to 98.7%
- Longtime 110% AC overload ability
- Type II SPD for both DC and AC side
- 6 MPPTs with 1.5 times DC overload
- Low start-up voltage, wide MPPT voltage range
- Compatible with 500 W+ PV modules
- I-V curve scanning function



Model	SOFAR 60KTLX-G3		SOFAR 80KTLX-G3
Input (DC)			
Max. input voltage	1100V		
Rated input voltage	620V		
Start-up voltage	200V		
MPPT operating voltage range	180V-1000V		
Number of MPP trackers	6		
Number of DC inputs	2 for each MPPT		
Max. input MPPT current	6×32A	6×40A	
Max. input short circuit current	6×50A	6×60A	
Output (AC)			
Rated output power	60000W	80000W	
Max. apparent power	66000VA	88000VA	
Max. output current	100A	133.3A	
Rated output voltage	3/N/PE, 230/400Vac		
Output voltage range	310Vac-480Vac		
Rated output frequency	50/60Hz		
Output frequency range	45Hz-55Hz/55Hz-65Hz		
Active power adjustable range	0~100%		
THDi	<3%		
Power factor	1 (adjustable +/-0.8)		
Efficiency			
Max. efficiency	98.7%		
European efficiency	98.2%		
Protection			
DC reverse polarity protection	Yes		
Anti-islanding protection	Yes		
Leakage current protection	Yes		
Ground fault monitoring	Yes		
PV-array string fault monitoring	Yes		
DC switch	Yes		
SPD	PV: type II, AC: type II		
General Data			
Ambient temperature range	-30℃~+60℃		
Self-consumption at night	<2W		
Topology	Transformerless		
Degree of protection	IP66		
Allowable relative humidity range	0~100%		
Max. operating altitude	4000m (>3000m derating)		
Cooling	Smart air cooling		
Dimension (W×H×D)	687×561×275mm		
Weight	50kg		
Display	LCD & Bluetooth +APP		
Communication	RS485/Wi-Fi		
Standard	IEC/EN 61000-6-2/4, IEC 61000-3-4/5, IEC 62116, IEC 61727, IEC 61683, IEC 60068-1/2/14/30, IEC/EN 62109-1/2, G99, VDE-AR-N 4105, VDE V 0126-1-1, EN 50549-1, UNE 217002-2020		

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SOFAR 100-125KTLX-G4

100 / 110 / 125 kW

THREE-PHASE TEN MPPTS



Product advantages

- Max. efficiency up to 98.6%
- IP66 design for outdoor
- Maximum 10 MPPTs with 150%+ DC overload
- Type II SPD for both DC and AC side
- AC/DC dual power supply redundant design, 24-hour status monitoring
- I-V curve scanning function
- Supports Modbus Communication, external Wi-Fi



Model	SOFAR 100KTLX-G4	SOFAR 110KTLX-G4	SOFAR 125KTLX-G4	SOFAR 125KTLX-G4-A
Input (DC)				
Max. input voltage	1100V			
Rated input voltage	625V			
Start-up voltage	200V			
MPPT operating voltage range	180V-1000V			
Number of MPP trackers	10			
Number of DC inputs	20			
Max. input MPPT current	10×40A			
Max. input short circuit current	10×50A			
Output (AC)				
Rated output power	100kW	100kW	110kW	125kW
Max. apparent power	100kVA@45°C / 90kVA@50°C	110kVA@45°C / 100kVA@50°C	125kVA@45°C / 110kVA@50°C	125kVA@45°C / 110kVA@50°C
Max. output current	152A@380V / 145A@400V / 139.2A@415V	167.2A@380V / 159.5A@400V / 153.1A@415V	190A@380V / 181.2A@400V / 174A@415V	190A@380V / 181.2A@400V / 174A@415V
Rated output voltage	3/N/PE, 380V / 400V / 415V			
Output voltage range	310-480Vac			
Rated output frequency	50/60Hz			
Output frequency range	45Hz-55Hz/55Hz-65Hz			
Active power adjustable range	0-100%			
THDi	<1%(@100%P)			
Power factor	1 (adjustable +/-0.8)			
Efficiency				
Max. efficiency	98.6%			
European efficiency	98.3%			
Protection				
DC reverse polarity protection	Yes			
Anti-islanding protection	Yes			
Leakage current protection	Yes			
Ground fault monitoring	Yes			
PV-array string fault monitoring	Yes			
DC switch	Yes			
AFCI	Yes			
SPD	PV: type II, AC: type II			
General Data				
Ambient temperature range	-30°C--60°C			
Topology	Transformerless			
Degree of protection	IP66			
Allowable relative humidity range	0-100%			
Max. operating altitude	4000m (>3000m derating)			
Cooling	Smart air cooling			
Dimension (W×H×D)	970×695×325mm			
Weight	75kg			
Display	LCD & Bluetooth +APP			
Communication	RS485/Wi-Fi			
Standard	EN/IEC 62109-1/2, EN/IEC 61000-6-2/-4, IEC 61000-3-4/-5, EN 50530, EN 50549, IEC62116, IEC 61727, IEC 61683, IEC 60068-2-1/2/14/30, VDE V 0126-1-1, UTE C15-712-1, VDE-AR-N 4105/4110, NTS 631, UNE 217001, UNE 217002, G99, C10/11			

*All specifications are subject to change without notice.

SO FAR 255KTL-HV

255 kW

THREE-PHASE TWELVE MPPTS



Product advantages

- 12 MPPTs with max. efficiency up to 99.02%
- IP66&C5 protection design for outdoor
- PID recovery
- Compatible with Al and Cu AC cables
- Type II SPD for both DC and AC side
- AC/DC dual power supply redundant design, 24-hour status monitoring
- I-V curve scanning function



Model		SOFAR 255KTL-HV
Input (DC)		
Max. input voltage		1500V
Rated input voltage		1160V
Start-up voltage		550V
MPPT operating voltage range		500V-1500V
Number of MPP trackers		12
Number of DC inputs		24
Max. input MPPT current		12×30A
Max. input short circuit current		12×50A
Output (AC)		
Rated output power		255kW
Max. apparent power		255kVA
Max. output current		184A
Rated output voltage		3/PE, 800V
Output voltage range		640-920V
Rated output frequency		50/60Hz
Output frequency range		45Hz-55Hz/55Hz-65Hz
Active power adjustable range		0-100%
THDi		<3%
Power factor		1 (adjustable +/-0.8)
Efficiency		
Max. efficiency		99.02%
European efficiency		98.70%
Protection		
DC reverse polarity protection		Yes
Anti-islanding protection		Yes
Leakage current protection		Yes
Ground fault monitoring		Yes
PV-array string fault monitoring		Yes
DC switch		Yes
PID recovery		Yes
SPD		PV: type II, AC: type II
General Data		
Ambient temperature range		-30°C~+60°C
Topology		Transformerless
Degree of protection		IP66
Allowable relative humidity range		0-100%
Max. operating altitude		5000m (> 4000m derating)
Cooling		Smart air cooling
Dimension (W×H×D)		1100.5×713.5×368mm
Weight		99kg
Display		LCD & Bluetooth +APP
Communication		RS485 / PBUS
Standard	EN/IEC 62109-1/2, EN/IEC 61000, IEC 62116, IEC 61727, IEC 61683, IEC 60068-2-1/2/14/30, EN 50530, VDE V 0126-1-1, VDE-AR-N 4110/4120, EN 50549, IEC 62910	

*All specifications are subject to change without notice.

SOFAR 250~350KTLX0

250 / 330 / 350 kW

THREE-PHASE SIX TO EIGHT MPPTS



Product advantages

- Max. efficiency up to 99.05%
- High current input, compatible with 700Wp+ module
- IP66 & C5 protection design for outdoor
- Intelligent string breaking protection for high safety
- I-V curve scanning function



Model	SOFAR 250KTLX0		SOFAR 330KTLX0	SOFAR 350KTLX0
Input (DC)				
Max. input voltage			1500V	
Rated input voltage			1160V	
Start-up voltage			550V	
MPPT operating voltage range			500V-1500V	
Number of MPP trackers	6		8	
Number of DC inputs	24		32	
Max. input MPPT current	6×60A		8×60A	
Max. input short circuit current	6×100A		8×100A	
Output (AC)				
Rated output power	250kW		330kW	352kW
Max. apparent power	250kVA		330kVA	352kVA
Max. output current	180.5A		238.2A	254.1A
Rated output voltage			3/PE, 800V	
Output voltage range			640-920V	
Rated output frequency			50/60Hz	
Output frequency range			45-55Hz / 55-65Hz	
Active power adjustable range			0-100%	
THDi			<3%	
Power factor			1 (+/-0.8 adjustable)	
Efficiency				
Max. efficiency			99.05%	
European efficiency			98.80%	
Protection				
DC reverse polarity protection			Yes	
Anti-islanding protection			Yes	
Leakage current protection			Yes	
Ground fault monitoring			Yes	
PV-array string fault monitoring			Yes	
DC switch			Yes	
SPD			PV: type II, AC: type II	
General Data				
Ambient temperature range			-30℃~+60℃	
Topology			Transformerless	
Degree of protection			IP66	
Allowable relative humidity range			0-100%	
Max. operating altitude			4000m	
Cooling			Smart air cooling	
Dimension (W×H×D)			1159×828×366mm	
Weight	< 111kg		< 113kg	
Display			LED, Bluetooth +APP	
Communication			RS485 / PBUS	
Standard	EN/IEC 62109-1/2, EN/IEC 61000, IEC 62116, IEC 61727, IEC 61683, IEC 60068-2-1/2/14/30, EN 50549, EN 50530, VDE-AR-N 4110/4120, NTS 631, UNE 217002, IEC 62910			

*All specifications are subject to change without notice.



03 Energy Storage System

HYD 5-20KTL-3PH

5 / 6 / 8 / 10 / 15 / 20 kW

THREE PHASE PV HYBRID INVERTER



Product advantages

- Various operational modes for optimal performance
- Off-grid output can be connected to unbalanced load, three-phase separate output is supported
- Up to 2 MPPTs, allowing a flexible configuration
- Multiple parallel systems, more flexible system solutions
- Maximum two battery inputs
- Fully digital operation, enabling higher control accuracy



Model	HYD 5KTL-3PH	HYD 6KTL-3PH	HYD 8KTL-3PH	HYD 10KTL-3PH	HYD 10KTL-3PH-A	HYD 15KTL-3PH	HYD 20KTL-3PH
PV Input							
Recommended Max. PV Power	7500Wp	9000Wp	12000Wp	15000Wp	15000Wp	22500Wp	30000Wp
Max. Input Voltage				1000 Vd.c.			
Start-up Voltage				200 Vd.c.			
Rated Input Voltage				600 Vd.c.			
MPPT Operating Voltage Range				180-960 Vd.c.			
Number of MPPT				2			
Max. Number of Input Strings per MPPT	1/1			2/2			
Max. Input Current ^[1]	16/16 A			32/32A			
Max. Isc ^[2]	22.5/22.5 A			45/45 A			
AC Output (Grid)							
Rated Output Power	5 kW	6 kW	8 kW	10 kW	10 kW	15 kW	20 kW
Rated Output Current	7.6/7.2/6.9 A	9.1/8.7/8.3 A	12.1/11.6/11.1 A	15.2/14.5/13.9 A	15.2/14.5/13.9 A	22.7/21.7/20.8 A	30.3/29.0/27.8 A
Rated Output Voltage ^[3]	3N→PE,380/400/415 Va.c.						
Rated Output Frequency	50/60 Hz						
Max. Apparent Power	5.5 kW	6.6 kW	8.8 kW	11 kW	10 kW	16.5 kW	22 kW
Max. Output Current	8.3/8.0/7.6 A	10.0/9.6/9.2 A	13.3/12.8/12.2 A	16.7/15.9/15.3 A	15.2/14.5/13.9 A	25.0/23.9/22.9 A	33.3/31.9/30.6 A
THDi	<3%						
Power Factor Range	0.8 lagging-0.8 leading						
Battery							
Battery Type ^[4]	Lithium-ion & Lead-acid						
Voltage Range	180-800 Vd.c.						
Number of Battery Input Channels	1			2			
Max. Charging Power	5 kW	6 kW	8 kW	10 kW	10 kW	15 kW	20 kW
Max. Discharging Power	5 kW	6 kW	8 kW	10 kW	10 kW	15 kW	20 kW
Max. Charging Current	25 A	25 A	25 A	25/25 A	25/25 A	25/25 A	25/25 A
Max. Discharging Current	25 A	25 A	25 A	25/25 A	25/25 A	25/25 A	25/25 A
BMS Communication	CAN/RS485						
AC Output(Backup)							
Rated Output Power	5 kW	6 kW	8 kW	10 kW	10 kW	15 kW	20 kW
Rated Output Current	7.6/7.2/6.9 A	9.1/8.7/8.3 A	12.1/11.6/11.1 A	15.2/14.5/13.9 A	15.2/14.5/13.9 A	22.7/21.7/20.8 A	30.3/29.0/27.8 A
Rated Output Voltage ^[3]	3N→PE,380/400/415 Va.c.						
Rated Output Frequency	50/60Hz						
Rated Apparent Power	5 kVA	6 kVA	8 kVA	10 kVA	10 kVA	15 kVA	20 kVA
Max. Apparent Power	5.5 kVA	6.6 kVA	8.8 kVA	11 kVA	11 kVA	16.5 kVA	22 kVA
Peak Output Apparent Power	7500VA, 60s	9000VA, 60s	12000VA, 60s	15000VA, 60s	15000VA, 60s	22500VA, 60s	26000VA, 60s
Max. Output Current	8.3/8.0/7.6 A	10.0/9.6/9.2 A	13.3/12.8/12.2 A	16.7/15.9/15.3 A	16.7/15.9/15.3 A	25.0/23.9/22.9 A	33.3/31.9/30.6 A
THDv(@ linear load)	<3%						
Switching Time	10ms default						
Efficiency							
Max. MPPT Efficiency	99.9%						
Max. Efficiency	98.0%	98.0%	98.0%	98.2%	98.2%	98.2%	98.2%
European Efficiency	97.5%	97.5%	97.5%	97.7%	97.7%	97.7%	97.7%
Max. Efficiency of Charging/Discharging ^[5]	97.6%	97.6%	97.6%	97.8%	97.8%	97.8%	97.8%
Protection							
DC Switch				Yes			
PV Reverse Connection Protection				Yes			
Battery Reverse Connection Protection				Yes			
Output Short Circuit Protection				Yes			
Output Overcurrent Protection				Yes			
Output Overvoltage Protection				Yes			
Insulation Impedance Detection				Yes			
Residual Current Detection				Yes			
Anti-island Protection				Yes			
Surge Protection				PV: Type II , AC: Type II			
General Parameters							
Operating Temperature Range	30℃→+60℃ (derating above +45℃)						
Relative Humidity Range	5%-95%						
Max. Operating Altitude	4000m (derating above 2000m)						
Standby Self-consumption ^[6]	<25W						
Inverter Topology	Non-Isolation						
Installation Method	Wall Mounted						
IP Rating	IP65						
Dimensions(W×H×D)	587×515×261mm						
Cooling Mode	Natural			Forced Airflow			
Weight	33kg			39.5kg			
Communication	CAN/RS485/Wi-Fi, Optional: 4G/LAN						
Display	LCD & +APP						

[1] PV Max. Input Current may change(12.5A to 16A;25A to 32A), please refer to the label on the body. [2] PV Max. Isc may change(15A to 22.5A;30A to 45A), please refer to the label on the body.
[3] AC Output Rated/Max. Output Current corresponds to Rated Output Voltage. 20K model, for example, when the Rated Output Voltage is 400V, the Rated Output Current is 29A;
most of the Rated Output Voltage is 415V, the Rated Output Current is 27.8A
[4] Please refer to document 'SOFAR Inverter Model compatible battery list'. [5] Battery-AC maximum efficiency of battery charge and discharge.
[6] Standby loss at rated input voltage. [7] If you choose the Belgian safety code, the Max. Apparent Power of HYD 5- 20KTL-3PH is 10 KVA.

*All specifications are subject to change without notice.

BTS E5-20-DS5

5 / 10 / 15 / 20 kWh

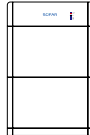
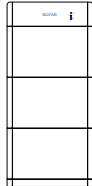
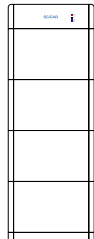
DC ENERGY STORAGE SYSTEMS



Product advantages

- Modular and integrated design for easy transportation and installation
- Maximal battery energy with pack optimization
- Flexible battery capacity expansion
- Extremely low battery self-consumption in sleep mode
- User-friendly one-button battery operation
- Energy storage specially for
- HYD 5/6/8/10/15/20KTL-3PH



Model	BTS E5-DS5		BTS E10-DS5		BTS E15-DS5		BTS E20-DS5	
System Parameters								
System Schematic								
Battery Type ^[1]	LiFePO ₄ - lithium iron phosphate battery							
Battery Distribution Unit	BTS 5K-BDU							
Number of Battery Distribution Unit	1							
Battery Module	BTS 5K							
Number of Battery Modules	1	2	3	4				
Battery Total Energy ^[2]	5.12 kWh	10.24 kWh	15.36 kWh	20.48 kWh				
Rated Capacity	100 Ah	200 Ah	300 Ah	400 Ah				
Rated Power	2.5 kW	5 kW	7.5 kW	10 kW				
Nominal Voltage	400 Vd.c.							
Operating Voltage Range	350-435 Vd.c.							
Max. Charging Current	6 A	12 A	18 A	24 A				
Max. Discharging Current	7.5 A	15 A	22.5 A	30 A				
General Parameters								
Display	LED							
Communication	CAN							
Dimensions(W×H×D)	708×680×170mm	708×1100×170mm	708×1520×170mm	708×1940×170mm				
Weight	59 kg	110 kg	161 kg	212 kg				
Enclosure Type	IP65							
Cooling	Natural							
Operating Temperature Range ^[3]	Charge: 0°C to +50°C / Discharge: -10°C to +50°C							
Humidity	5%-95%							
Installation	Floor Stand							
Max. Operating Altitude ^[4]	4000 m							
Battery Module ^[5]								
Model	BTS 5K							
Battery Module Energy	5.12 kWh							
Nominal Voltage	400 Vd.c.							
Rated Power	2.5 kW							
Dimensions(W×H×D)	708×420×170 mm							
Weight	50 kg							
Battery Distribution Unit								
Model	BTS 5K-BDU							
Operating Voltage Range	350-435 Vd.c.							
Maximum Current	30 A							
Number of BTS 5K	1-4							
Protective Class	Class I							
Enclosure Type	IP65							
Dimensions(W×H×D)	708×200×170 mm							
Weight	7.5 kg							
Ordering and Deliverable Part								
Product Ordering Model ^[6]	BTS 5K, BTS 5K-BDU							

[1] Rechargeable Li-ion Battery system.

[2] Test conditions: 0.2C charging/discharging at 25°C, 100%DOD.

[3] Refer to the temperature derating curve.

[4] If the altitude is >2000m, derating operation is required, refer to the derating curve.

[5] The internal battery pack is 51.2V, 100Ah.

[6] Storage system is ordered and delivered in the form of power module and battery module separately with corresponding quantity.

*All specifications are subject to change without notice.

ESI 3-6K-S1

3 / 3.68 / 4 / 4.6 / 5 / 6 kW

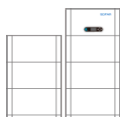
SINGLE-PHASE STACKED ALL-IN-ONE SYSTEM



Product advantages

- Stacking integrated design, easy installation
- Supports mixing old and new batteries, simple maintenance
- Built-in PCU, battery available energy increased by 6%
- Maximum 16A PV input current, compatible with high-current / bifacial modules
- Battery with physical and electrical isolation, safer system



Model	ESI 3K-S1		ESI 3.68K-S1		ESI 4K-S1		ESI 4.6K-S1		ESI 5K-S1		ESI 6K-S1	
PV Input												
System Schematic												
Recommended Max. PV Power	4500Wp		5400Wp		6000Wp		6900Wp		7500W		9000Wp	
Max. Input Voltage	550 Vd.c.											
Start-up Voltage ^[1]	100 Vd.c.											
Rated Input Voltage	360 Vd.c.											
MPPT Voltage Range	85-520 Vd.c.											
Number of MPPT	2											
Max. Number of Input Strings per MPPT	1/1											
Max. Input Current	16/16 A											
Max. Isc	22.5/22.5 A											
Battery												
Voltage Range	350-435 Vd.c.											
Number of Battery Input Channels	2											
Max. Charging Power	3 kW	3.68 kW	4 kW	4.6 kW	5 kW	6 kW						
Max. Discharging Power	3 kW	3.68 kW	4 kW	4.6 kW	5 kW	6 kW						
Max. Charging Current	20 A											
Max. Discharging Current	20 A											
Battery Type ^[2]	Lithium-ion											
BMS Communication	CAN											
AC Backup												
Rated Output Voltage	L+N+PE,220/230/240 Va.c.											
Rated Output Frequency	50/60 Hz											
Rated Output Power	3 kW	3.68 kW	4 kW	4.6 kW	5 kW	6 kW						
Rated Output Current	13.6/13.0/12.5 A	16.7/16.0/15.3 A	18.2/17.4/16.7 A	20.9/20.0/19.2 A	22.7/21.7/20.8 A	27.3/26.1/25.0 A						
Rated Apparent Power	3 kVA	3.68 kVA	4 kVA	4.6 kVA	5 kVA	6 kVA						
Max. Apparent Power	3 kVA	3.68 kVA	4 kVA	4.6 kVA	5 kVA	6 kVA						
Max. Output Current	13.6/13.0/12.5 A	16.7/16.0/15.3 A	18.2/17.4/16.7 A	20.9/20.0/19.2 A	22.7/21.7/20.8 A	27.3/26.1/25.0 A						
Peak Output Apparent Power	4500VA, 60s	5520VA, 60s	6000VA, 60s	6900VA, 60s	7500VA, 60s	9000VA, 60s						
THDv(@ linear load)	<3%											
Switching Time	10 ms default											
AC Grid												
Rated Voltage	L+N+PE,220/230/240 Va.c.											
Rated Frequency	50/60 Hz											
Rated Output Power	3 kW	3.68 kW	4 kW	4.6 kW	5 kW	6 kW						
Rated Output Current	13.6/13.0/12.5 A	16.7/16.0/15.3 A	18.2/17.4/16.7 A	20.9/20.0/19.2 A	22.7/21.7/20.8 A	27.3/26.1/25.0 A						
Rated Apparent Power	3 kVA	3.68 kVA	4 kVA	4.6 kVA	5 kVA	6 kVA						
Max. Apparent Power ^[3]	3.3 kVA	3.68 kVA	4.4 kVA	4.6 kVA	5.5 kVA	6.6 kVA						
Max. Output Current ^[4]	15.0/14.3/13.8 A	16.7/16.0/15.3 A	20.0/19.1/18.3 A	20.9/20.0/19.2 A	25.0/23.9/22.9 A	30.0/28.7/27.5 A						
Max. Input Current	27.3/26.1/25.0 A	33.5/32.0/30.7 A	36.4/34.8/33.3 A	41.8/40.0/38.3 A	45.5/43.5/41.7 A	54.5/52.2/50.0 A						
THDi	<3%											
Power Factor Range	0.8 lagging-0.8 leading											
Efficiency												
Max. MPPT Efficiency	99.9%											
Max. Efficiency	97.7%	97.7%	97.7%	97.8%	97.8%	97.8%						
European Efficiency	97.0%	97.0%	97.0%	97.1%	97.1%	97.1%						
Max. Efficiency of Charging/Discharging ^[5]	97%											
Protection												
DC Switch	Yes											
PV Reverse Connection Protection	Yes											
Battery Reverse Connection Protection	Yes											
Output Short Circuit Protection	Yes											
Output Overcurrent Protection	Yes											
Output Overvoltage Protection	Yes											
Insulation Impedance Detection	Yes											
Residual Current Detection	Yes											
Anti-island Protection	Yes											
Surge Protection	PV:Type II, AC:Type II											
Protection												
Inverter Topology	Non-Isolation											
Protective Class	Class I											
IP Rating	IP65											
Overvoltage Category	AC III, DC II											
Operating Temperature Range	-10°C to +50°C (derating above +45°C)											
Relative Humidity Range	5%-95%											
Max. Operating Altitude	4000 m (derating above 2000 m)											
Standby Self-consumption ^[6]	<10 W											
Dimensions(W×H×D)	708×410×170 mm											
Cooling Mode	Natural											
Weight	26 kg											
Communication	CAN/RS485/Wi-Fi. Optional: 4G/LAN											
Display	LCD & APP											

[1] Minimum PV voltage to start MPPT operation.

[2] Please refer to document "SOFAR inverter Model compatible battery list"

[3] Maximum apparent power of ESI 5K-S1 for Belgian and Australian safety codes is 5 kVA.

[4] Maximum output current of ESI 5K-S1 for Belgian and Australian safety codes is 22.7/21.7/20.8 A.

[5] Battery-AC maximum efficiency of battery charge and discharge

[6] Standby loss at rated input voltage

BT5000A

AC BATTERY



Product advantages

- Lightweight and integrated design, saving time and costs.
- Electrical isolation design, worry-free safety.
- AC-coupled design for easy integration with existing solar systems.
- Supports mixed use of new and old batteries, expandable up to 6 units in parallel.



Model	BT5000A
AC Grid	
Rated Power	2500W
Rated Apparent Power	2750VA
Rated Output Current	11.4/10.9/10.4A
Max. Output Current	12.5/12/11.5A
Max. Input Current	22.7/21.7/20.8A
Rated AC Voltage	220/230/240V
Grid Voltage Range	176-276V
Rated Grid Frequency	50/60Hz
Grid Frequency Range	45-66Hz
THDI	<3%
PF	0.8 leading-0.8 lagging
AC Output (Off Grid)	
Rated Power	2500W
Peak output Power	3500W,10s
Rated Current	11.4/10.9/10.4A
Rated Voltage	220/230/240V
Rated Frequency	50/60Hz
THDV	< 3%
Battery Side	
Battery Type	LiFePO ₄ - lithium iron phosphate battery
Rated Voltage	51.2V
Battery total Energy ^[1]	5.12kWh
Usable capacity ^[2]	4.6kWh
General Parameters	
Operating temperature range ^[3]	-20℃~+50℃
Relative humidity range	5%-95%(non-condensing)
Max. operating altitude ^[4]	4000m
Degree of protection	IP66
Display	LCD & APP
Cooling	Natural Cooling
Communication	RS485, optional: Wi-Fi, 4G
Surge Protection	AC: Type III
Dimensions(W×H×D)	400×800×175mm
Weights(kg)	50kg
Installation method	Wall Mounted OR Floor Mounted
Standard	IEC 61000, IEC62109, IEC62477, IEC62619, UN38.3, EN50549-1

[1] Test conditions: 0.2C charging/discharging at 25℃, 100%DOD.

[2] Usable energy is based on battery cell only.

[3] Refer to the temperature derating curve.

[4] If the altitude is more than 2000m, derating operation is required. Refer to the derating curve.

*All specifications are subject to change without notice.



04 Smart Energy

STICK LOGGER

LSW-3 / LSE-4W / WF-BLE



Product advantages

- Independent from inverter to protect parts inside the inverter eliminate potential problems
- Outdoor design, easier to replace faulty equipment
- Plug-and-play for easy installation, no external power supply needed
- IP65 design, adaptable to bad weather condition
- External light indicator, logging status at a glance
- User-friendly App platform to monitor yield performance any time, anywhere



Model	LSW-3	LSE-4W	WF-BLE
Electrical parameters			
Working voltage	DC 5V	DC 5V	DC 5V
Working power	1.5W	1.5W	5W
LED	3	3	4
Communication parameter			
Remote data interface	Wi-Fi	LAN	Wi-Fi
Flash memory	8MB	4MB	4MB
Connected inverters	1	1	1
Software parameter			
Serial communication rate	Default 9600bps (1200-115200bps adjustable)	Default 9600bps (1200-115200bps adjustable)	Default 9600bps (1200-115200bps adjustable)
Data acquisition interval	Default 5min (1-15min optional)	Default 5min (1-15min optional)	Default 5min (1-15min optional)
User configuration	AT+ instruction set	AT+ instruction set	Remote server
	Remote server	Remote server	
Firmware upgrade	Remote web	Remote web	Remote web
Environmental parameter			
Working temperature	-30~+70℃	-30~+70℃	-30~+85℃
Working humidity	10%-90% (Condensation free)	10%-90% (Condensation free)	10%-90% (Condensation free)
Protection grade	IP65	IP65	IP65
Other			
	Real-time control, Data resume		

*All specifications are subject to change without notice.

PSC100*

SOFAR COMMUNICATION MANAGER



Product advantages

- RS485, PBUS, Ethernet, Fiber-optic network
- Supports up to 60 inverters
- Supports dual-split, two-winding transformers and can be configured with dual PBUS modules
- Can be connected to a wide range of environmental collectors, electricity meters, box transformer, measurement and control equipment
- Built-in Surge protectors
- IP65 protection for long-term stable outdoor operation
- Supports remote/local batch upgrades and single unit upgrades
- Remote control, giving commands such as power settings



Model		PSC100*
General parameters		
Auxiliary power input	Voltage range 100Vac-240Vac; Frequency range: 50-60Hz	
Communication mode	With inverters: RS485/PBUS	
	With monitoring platforms: SFP/ETH	
Max. number of connected devices	RS485: 60pcs, PBUS: 60pcs	
Max. transmission distance	RS485:1000M, PBUS:1000M	
PBUS (communication) voltage input	Voltage range: 320Vac-920Vac, Frequency range: 50H-60Hz	
Fibre optic ports	Max. transmission distance: 20KM	
	Interface method: LC	
Protocol supported	MODBUS TCP/IEC103/IEC104/IEC51850	
Environmental parameters		
Operating temperature	-30~+60°C	
Storage and transport temperature	-40°C~+85°C	
Operating altitude	≤4000m	
Protection level	IP65	
Relative humidity	<95%, Non-condensing	
Surge Protection	AC Type II	
Mechanical parameters		
Cooling methods	Natural cooling	
Dimensions (W×H×D)	760 x 580 x 220mm	
Weight	≤21.5KG	
Compliance		
Certificates	IEC61000-6-2/4	
Installation mode		Wall mounting / Flat mounting

*All specifications are subject to change without notice.

CH1000

Control Hub



Product advantages

- Support monitoring via cloud or mobile APP. Device include inverter, battery, energy meter, EV charger, heat pump.
- Built-in EMS function include self-consumption, time of use mode, scheduled charging and discharging, VPP access.
- Emergency power off, millisecond power controlling.



Model	CH1000
Communication to Inverter	
Max. number of connected devices	60pcs
To Micro inverter	868/915Mhz, 802.15.4
To Residential & Commercial & Industrial inverter	RS485
Power Supply (Adapter)	
Type	External Adapter
Adapter input voltage/frequency	100 to 240 V AC / 50 or 60 Hz
Adapter output voltage/current	12V/2A
Power consumption	Typical. 5.0W
Internet Connection Options	
Wi-Fi	2.4G, 802.11b/g/n
Mobile	Optional, LTE CAT.4
Ethernet	RJ45 × 2, 10M/100Mbps
Other Interface	
RS485	COM × 3, Modbus-RTU
DRM	RJ45 × 1, DRM0/5/6/7/8
Analog Signal Input	×4, 4~20mA
Digital Signal Output	× 2, Dry Contact
Digital Signal Input	× 4, Dry Contact
Interaction	
LED	LED × 3
APP	SofarCloud
Mechanical Data	
Operating temperature range	-30 to +65°C
Environmental rating	IP20
Dimensions (L × W × H)	217 × 125 × 34mm
Altitude	3000m
Installation method	Wall mounting / Desktop mounting / DIN rail
Compliance	
Certificates	IEC61000-6-1/2/3/4, CE-RED, RoHS
Inverter Compatibility	
Inverter model	SOFAR 25-50KTLX-G3 / 60-80KTLX-G3 / 100-125KTLX-G4 / 250-255KTL-HV / 250-350KTLX0

*All specifications are subject to change without notice.

EV11k-AC-02

Wallbox



Product advantages

- Multiple functions for electrical protection, Type-A+ 6mA DC leakage detection, safer charging environment
- Compact shape, support wall-mount, easy to install
- Intelligent monitoring by APP, support scheduled charging, Ability to control remotely, Time saving and efficient
- Flexible start mode, Support RFID card, User-Friendly design
- RS-485 communication connects to the inverter directly.
- IP65 Certified, UV resistant, Capable to withstand harsh environments



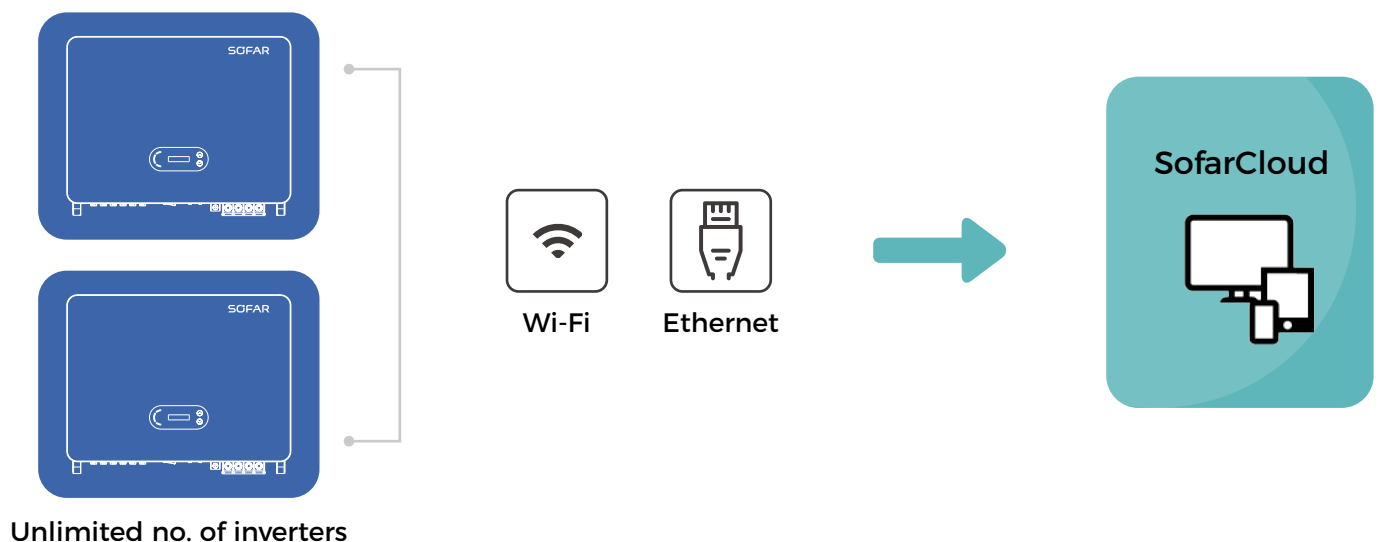
Model	EV11k-AC-02
AC Input & Output	
Nominal Charging Power	11 kW
Nominal Output Voltage	3P/N/PE 220-240/380-415 V.a.c
Max. Output Current	16 A
Nominal AC Frequency	50/60 Hz
Vehicle Connection	Type 2 Cable
Charging Cable Length	7 m
User Interface & Communication	
Protocol	OCPP 1.6 JSON
Communication	RS485 / Wi-Fi / BLE, Optional:Ethernet / 4G
Display	LED indicator / APP
Metering	Integrated metering IC
Protection	
Residual Current Protection	TypeA+6mA DC detection
Over / Under Voltage Protection	Supported
Overload Protection	Supported
Over / Under Frequency Protection	Supported
Over Temperature Protection	Supported
Surge Protection	Supported
Grounding System	TT / TN
General Data	
Dimensions(H / W / D)	344×192×100mm
Weight	4.2kg
Operating Temperature Range	-30~+50℃
Ambient Humidity	5%~95%
Working Altitude	<2000m
Cooling Mode	Natural
Ingress Protection	IP65
Installation method	Wall-mounted
Standard Compliance	
Standard	EN IEC 61851-1,IEC62955,IEC 61851-21-2,EN IEC 61000-6-1, EN 61000-6-3,EN 300 328 V2.2.2,EN 300 330 V2.1.1,EN 62311, EN 301 489-1 V2.2.3,EN 301 489-3 V2.1.1,EN 301 489-17 V3.2.0

*All specificantions are subject to change without notice.



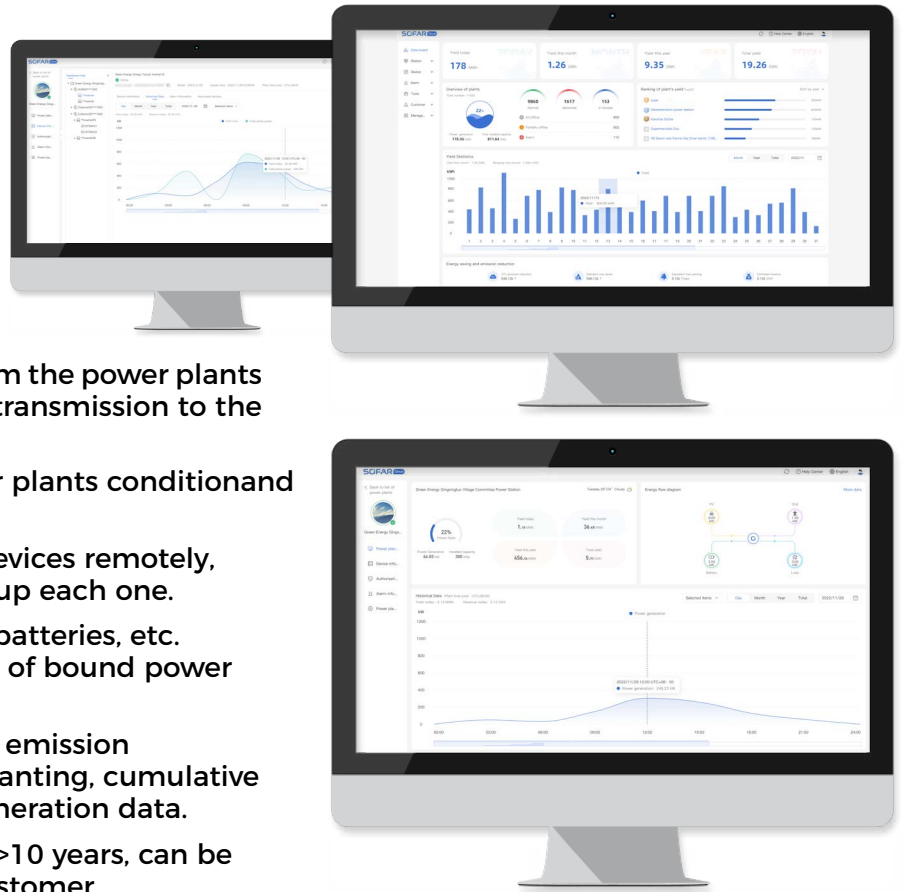
SofarCloud

The SofarCloud is aimed at distributors / installers and end-users of Residential PV& Storage System and C&I PV & Storage System. It is a platform system for the whole life cycle management of new energy power plants, which can effectively help customers to grasp the operation status of power plants in real time, achieve fine control, efficient operation and maintenance, transparent operation and maximum profit.



SofarCloud

– Web



- Collection of all power data from the power plants during power generation and transmission to the terminal platform.
- Real-time knowledge of power plants condition and devices to prevent accidents.
- Batch upgrade and manage devices remotely, no need to visit the site to set up each one.
- Alerts data covering inverters, batteries, etc. Easy to check the alarm status of bound power plant devices.
- Simulation of coal savings, CO₂ emission reductions, equivalent tree planting, cumulative revenue through electricity generation data.
- General data retention period >10 years, can be extended if required by the customer

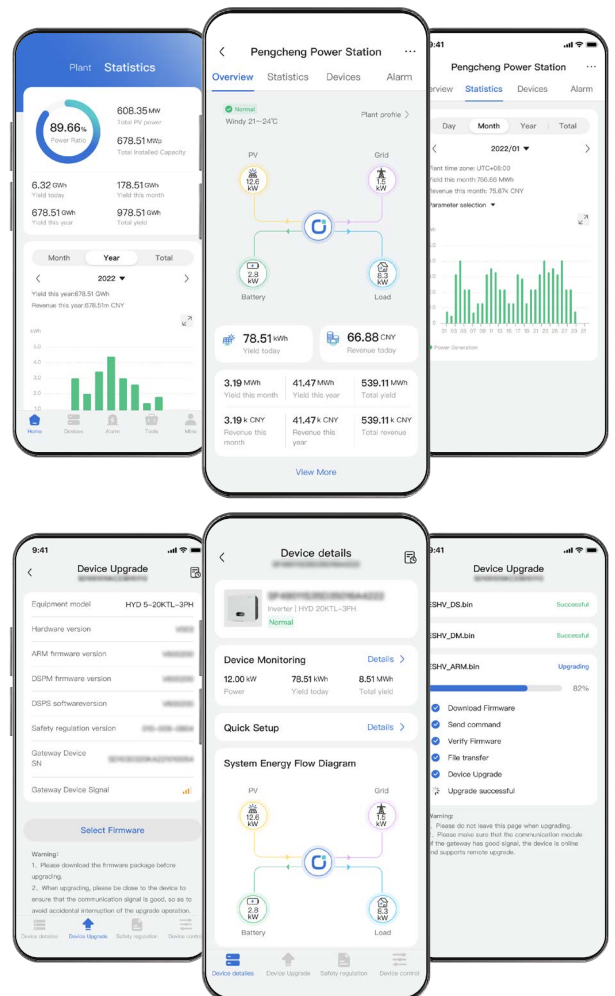
SofarCloud

– App



Portable management

- Check the status of your power plant anytime, anywhere!
- Flow chart showing current power generation, consumption and grid connection at the plant
- Precise location of the faulty device and the cause of the fault
- Customize your power plant display



Local setup of inverters

- Bluetooth connection for inverters, data transfer
- Remote switch on/off, set safety regulations, language, time, etc.
- Historical events, rapid O&M



ENERGY TO POWER YOUR LIFE

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