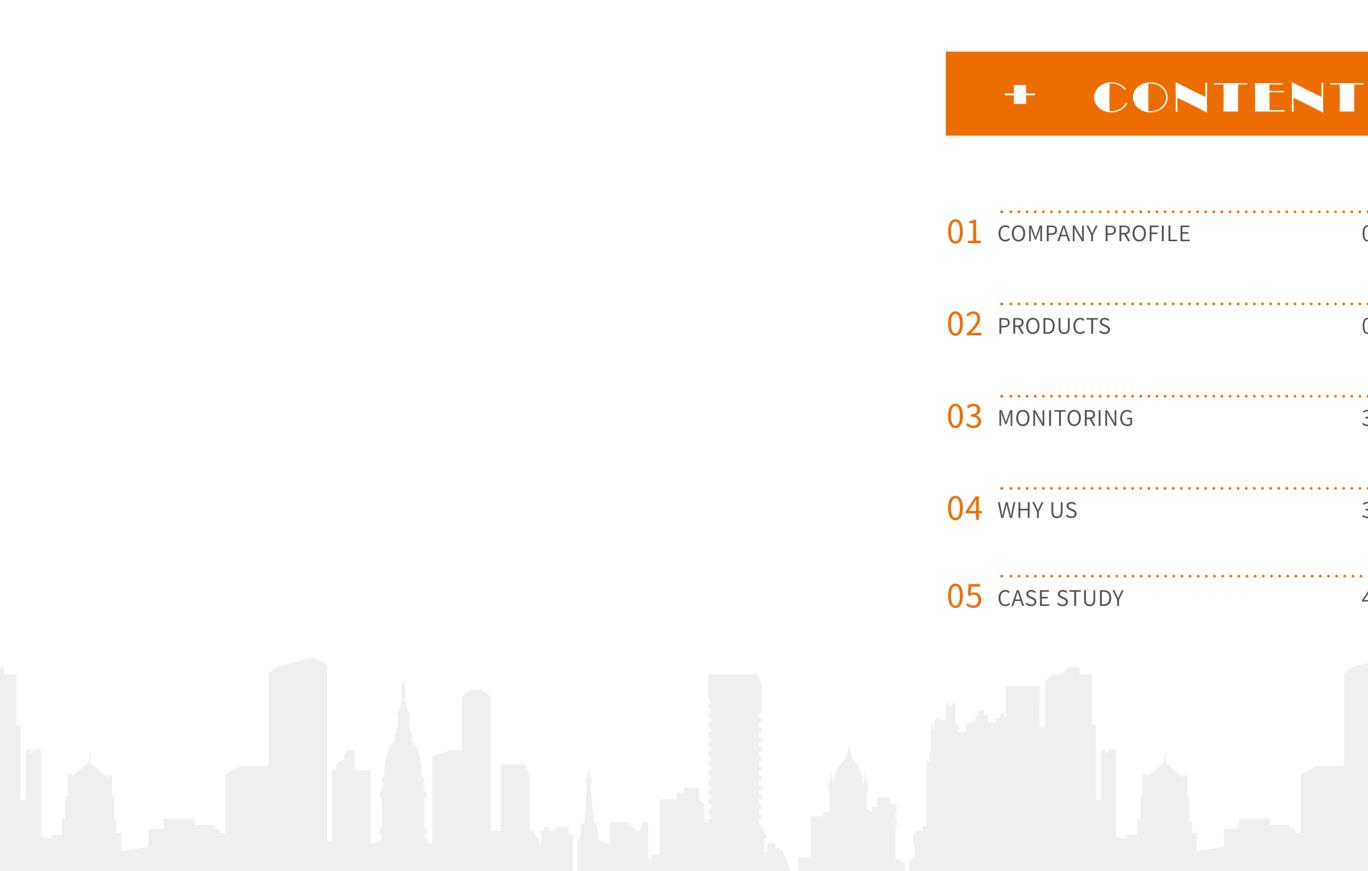




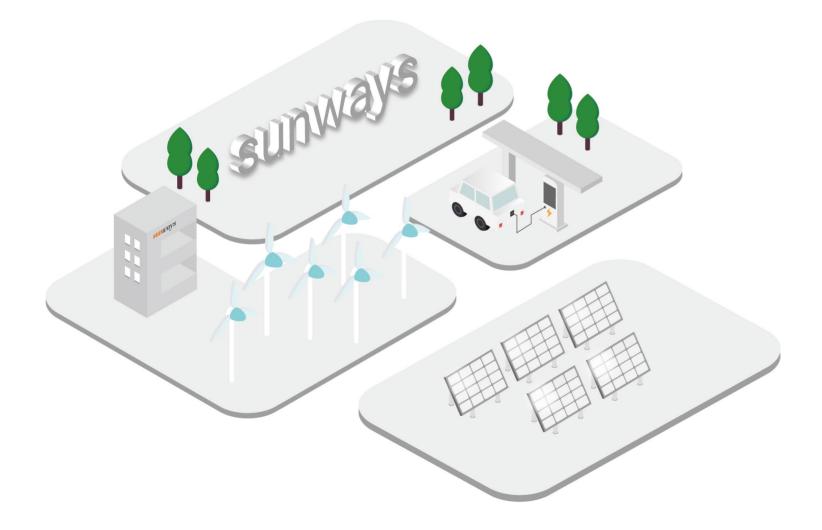
Photovoltaic Technology



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01 COMPANY PROFILE



Energy Connects All

Sunways Photovoltaic Technology

WHO WE ARE

ABOUT US

Sunways is a cutting-edge technology company founded in Konstanz, Germany in 1993, dedicated to developing, manufacturing, producing and distributing PV parts, including inverters for on-grid and energy storage PV systems in residential, commercial and industrial projects, data communication solutions, accessories and applications for monitoring and managing. Since its inception, we have been convinced that the energy transition from fossil fuels to renewable energy such as wind and solar is inevitable. With a strong belief in this trend, Sunways produced a series of technical-leading solar solutions, including on-grid and hybrid inverters, and dominated the solar industry in the late 1990s and millennium.

In 2018, Sunways received reinvestment from Puze Group and established Ningbo Sunways Technologies Co., Ltd., allowing us to obtain more resources to invest in R&D, production, marketing and supply chain, and achieve comprehensive upgrades such as strengthening research and development team, optimizing production capacity layout, stabilizing supply chain and globalizing sales & marketing team.

 Ningbo, China
 1993 Founded
 40

 HQ & Manufacturer Base
 Konstanz Germany
 Of To





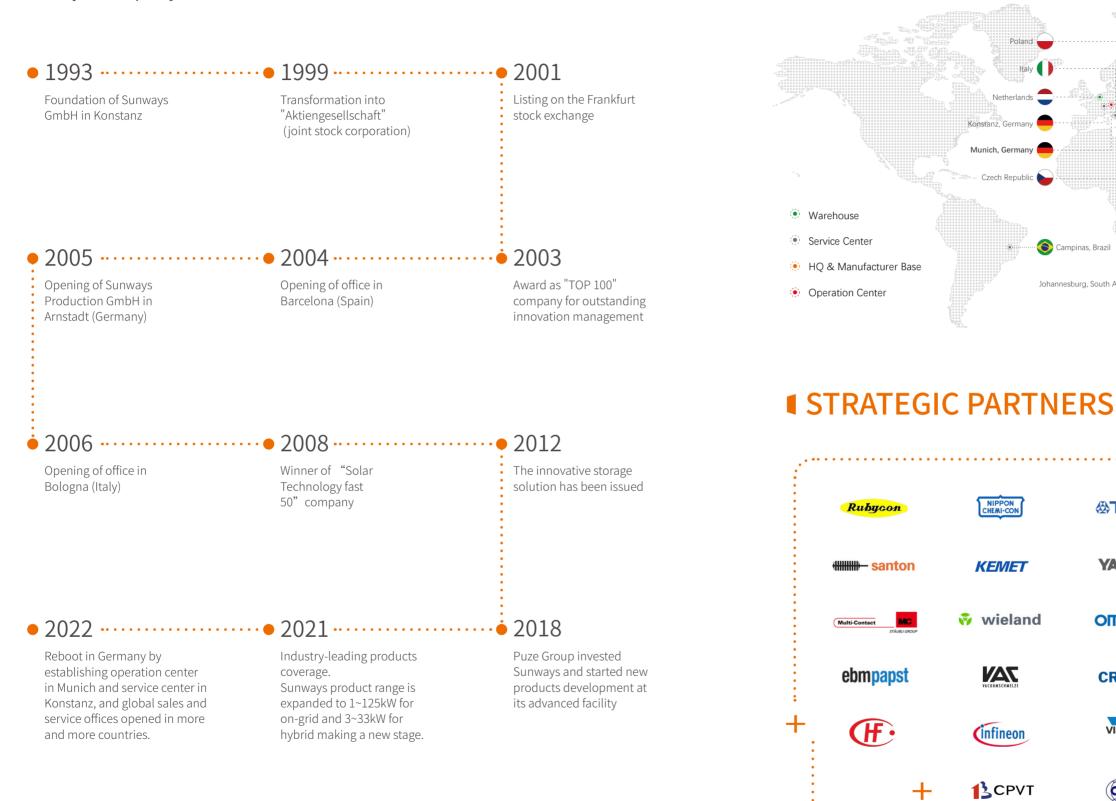




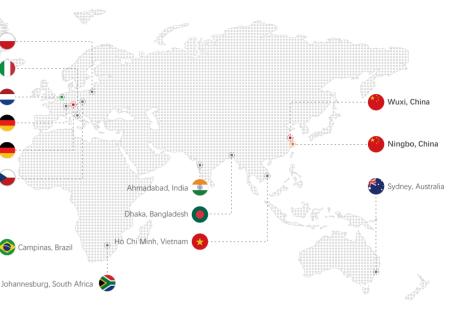
WHO WE ARE

Sunways company's milestones

OUR PRESENCE



Campinas, Brazil





02 products

WHAT WE HAVE



2021 SINGLE PHASE SERIES

STS-7~11KTL

THREE PHASE SERIES STT-30~60KTL

STORAGE SERIES STH-3~8KTL-HS

ACCESSORIES LAN Module Smart Meter - STM Energy Manager - STK







SINGLE PHASE SERIES STS-1~3.3KTL-S-P

STORAGE SERIES STH-4~12KTL-HT-P STH-15K~33KTL-HT

Sunways Technologies 9

Sunways Single Phase with Single MPPT STS-1K~3.3KTL-S-P



SAFE & RELIABLE

- High reliability due to good heat dissipation design
- Integrated lightning protection for both DC and AC
- Adapt to complex power grid
- High anti-corrosion ability with aluminum alloy die casting technology
- Wider working temperature and altitude, adapt to various installation environments
- High yield with Max. 97.5% efficiency
- European weighted efficiency 97%
- Wide MPPT voltage range
- Up to 10% continuous output overloading capacity
- Single MPPT design with precise MPPT algorithm

♣ HIGH YIELD

💥 EASY TO USE

• Compact elegant design, light weight, one-person installation

- Plug and play connectors, easy for installation
- Support wireless and wired internet connection (RS485/WiFi/GPRS/LAN optional)
- Remote upgrading available
- Fast and easy configuration via App or OLED display

Technical Parameters

Model	STS-1KTL-S-P	STS-1.5KTL-S-P	STS-2KTL-S-P	STS-2.5KTL-S-P	STS-3KTL-S-P	STS-3.3KTL-S			
Input									
Max. Input Power (W)	1,600	2,400	3,200	4,000	4,800	4,800			
Start-up Voltage (V)	60	60	60	60	60	60			
Min. DC Voltage (V)	55	55	55	55	55	55			
Max. DC Input Voltage (V)	500	500	500	500	500	500			
Rated DC Input Voltage (V)	360	360	360	360	360	360			
MPPT Voltage Range (V)	80-450	80-450	80-450	80-450	80-450	80-450			
Number of MPP Trackers	1	1	1	1	1	1			
Number of DC Inputs per MPPT	1	1	1	1	1	1			
Max. Input Current (A)	16 0	16 [®]	16 ⁰	16 ^①	16 [®]	16 1			
Max. Short-circuit Current (A)	20 2	20 2	20 [®]	20 2	20 2	20 [®]			
Output									
Rated Output Power (W)	1,000	1,500	2,000	2,500	3,000	3,300			
Max. Output Power (W)	1,100	1,650	2,200	2,750	3,300	3,300			
Max. Apparent Power (VA)	1,100	1,650	2,200	2,750	3,300	3,300			
Rated Output Voltage (V)		1	220	/230					
Rated AC Frequency (Hz)			50/60Hz 45-5	55Hz/55-65Hz					
Max. Output Current (A)	4.8	7.2	9.6	12	14.4	14.4			
Power Factor		1	0.8 leading ·	···0.8 lagging					
Max. Total Harmonic Distortion				Output Power					
DCI		<0.5%ln							
Efficiency	1								
Max. Efficiency	97.3%	97.3%	97.5%	97.5%	97.5%	97.5%			
European Efficiency	96.4%	96.4%	97.0%	97.0%	97.0%	97.0%			
MPPT Efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%			
Protection	001070	551576	001070	001070	551576	001070			
DC Reverse Polarity Protection			Integ	rated					
Insulation Resistance Protection				rated					
DC Switch				ional					
Surge Protection				rated					
Over-temperature Protection				rated					
Residual Current Protection				rated					
Anti-islanding Protection				rated					
Anti-Islanding Protection AC Short-circuit Protection			0						
			-	rated					
AC Over-voltage Protection			integ	rated					
General Data			222141422	7U*114D					
Dimensions (mm)				07H*114D					
Weight (kg)				.5					
Protection Degree				65					
Self-consumption at Night (W)				1					
Topology				rmer less					
Operating Temperature Range (° C)		-30~60							
Relative Humidity (%)		0~100							
Operating Altitude (m)		4000 (derating@ > 3000)							
Cooling		Natural Convection							
Noise Level (dB)		< 25							
Display			OLED	& LED					
Communication			RS485/WiFi/GPR	S/LAN (Optional)					
Compliance	IEC6	2109, EN61000, C10/C11	l, VDE4105, VDE0126, E 1699, CEI-021, IEC617			RD647,			

① STS-1~3.3KTL-S series maximum input current per string is 12.5A, products deliver upon the order. ② STS-1~3.3KTL-S series maximum short-circuit current per string is 15A, products deliver upon the order. * : STS 3.3KTL-S-P available for India only.

Single Phase:STS-1K~3.3KTL-S-P

Sunways Single Phase with Dual MPPT $STS - 3K \sim 6KTL - P$ **sun**ways MAX 98.1% EFFICIENCY **IP65 PROTECTION**

SAFE & RELIABLE

- High reliability due to good heat dissipation design
- Integrated lightning protection for both DC and AC
- Adapt to complex power grid
- High anti-corrosion ability with aluminum alloy die casting technology
- Wider working temperature and altitude, adapt to various installation environments

• High yield with Max. 98.1% efficiency

- European weighted efficiency 97.5%
- Wide MPPT voltage range
- Up to 10% continuous output overloading capacity
- With a max input current of 15A, compatible with high-power panels

• Compact elegant design, light weight, one-person installation

- Plug and play connectors, easy for installation
- Support wireless and wired internet connection (RS485/WiFi/GPRS/LAN optional)
- Remote upgrading available
- Fast and easy configuration via App or OLED display

A HIGH YIELD

💥 EASY TO USE

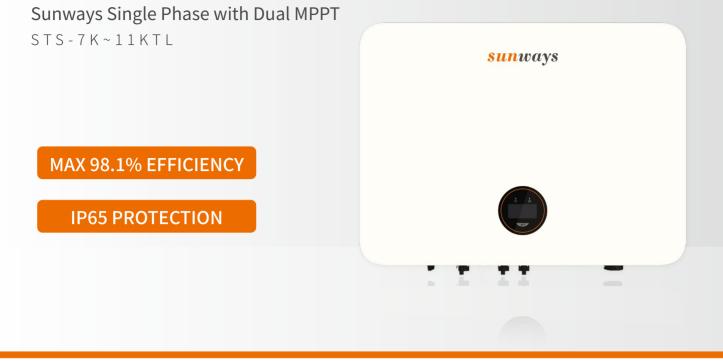
Technical Parameters

Model	STS-3KTL-P	STS-3.6KTL-P	STS-4.2KTL-P	STS-4.6KTL-P	STS-5KTL-P	STS-6KTL-			
Input									
Max. Input Power (W)	4,800	5,760	6,720	7,360	8,000	9,600			
Start-up Voltage (V)	80	80	80	80	80	80			
Min. DC Voltage (V)	100	100	100	100	100	100			
Max. DC Input Voltage (V)	600	600	600	600	600	600			
Rated DC Input Voltage (V)	360	360	360	360	360	360			
MPPT Voltage Range (V)	100-550	100-550	100-550	100-550	100-550	100-550			
Number of MPP Trackers	2	2	2	2	2	2			
Number of DC Inputs per MPPT	1	1	1	1	1	1			
Max. Input Current (A)	15/15 ⁰	15/15 ¹	15/15 ^①	15/15 [®]	15/15 ¹	15/15 ¹			
Max. Short-circuit Current (A)	20/20	20/20	20/20	20/20	20/20	20/20			
Output					I				
Rated Output Power (W)	3,000	3,600	4,200	4,600	5,000/4,990 2 **	6,000			
Max. Output Power (W)	3,300	3,960*	4,600	4,600	5,500/4,990 ^② **	6,600			
Max. Apparent Power (VA)	3,300	3,960*	4,600	4,600	5,500/4,990 [©] **	6,600			
Rated Output Voltage (V)	- ,	.,		/230		-,			
Rated AC Frequency (Hz)				55Hz/55-65Hz					
Max. Output Current (A)	15	18***	21	21	25/21.7 2 ****	28.7			
Power Factor	15	10			23/21.1	20.1			
Max. Total Harmonic Distortion		0.8 leading ··· 0.8 lagging							
DCI	<3% @Rated Output Power								
Efficiency		<0.5%In							
Max. Efficiency	98.1%	98.1%	98.1%	98.1%	98.1%	98.1%			
European Efficiency	97.5%	97.5%	97.5%	97.5%	97.5%	97.5%			
MPPT Efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%			
Protection	33.370	55.570	55.570	55.570	35.570	55.570			
			lator	ratad					
DC Reverse Polarity Protection			Integ						
			Integ						
DC Switch			Opti						
Surge Protection			Integ						
Over-temperature Protection			Integ						
Residual Current Protection			Integ						
Anti-islanding Protection			Integ						
AC Short-circuit Protection			Integ						
AC Over-voltage Protection			Integ	rated					
General Data									
Dimensions (mm)				0H*120D					
Weight (kg)				3					
Protection Degree			IP						
Self-consumption at Night (W)				1					
Topology		Transformer less							
Operating Temperature Range (° C)		-30~60							
Relative Humidity (%)		0~100							
Operating Altitude (m)		4000 (derating@ > 3000)							
Cooling		Natural Convection							
Noise Level (dB)			< 2	25					
NOISE LEVEI (UD)		< 25 OLED & LED							
Display		OLED & LED							

① STS-3~6KTL series maximum input current per string is 12.5A, and STS-3~6KTL-P version is 15A, products deliver upon the order. 2 The grid feed in power for AS/NZS 4777.2 is limited 4.99kW & 4.99kVA & 21.7A. *: 3680 for G98. **: 5000 for C10/11. ***: 16 for G98. ****: 21.7 for C10/11.

Single Phase:STS-3K~6KTL-P





SAFE & RELIABLE

A HIGH YIELD

- High reliability due to good heat dissipation design
- Integrated lightning protection for both DC and AC
- Adapt to complex power grid
- High anti-corrosion ability with aluminum alloy die casting technology
- Wider working temperature and altitude, adapt to various installation environments

• High yield with Max. 98.1% efficiency

- European weighted efficiency 97.6%
- Wide MPPT voltage range
- Up to 10% continuous output overloading capacity
- With a max input current of 15A, compatible with high-power panels

🛞 EASY TO USE

- Plug and play connectors, easy for installation
- Support wireless and wired internet connection (RS485/WiFi/GPRS/LAN optional)
- Remote upgrading available
- Fast and easy configuration via App or OLED display

Technical Parameters

Model	STS-7KTL	STS-8KTL	STS-9KTL	STS-10KTL	STS-11KTL*			
Input								
Max. Input Power (W)	11,200	12,800	14,400	16,000	16,000			
Start-up Voltage (V)	80	80	80	80	80			
Max. DC Input Voltage (V)	600	600	600	600	600			
Rated DC Input Voltage (V)	360	360	360	360	360			
MPPT Voltage Range (V)	80~550	80~550	80~550	80~550	80~550			
Number of MPP Trackers	2	2	2	2	2			
Number of DC Inputs per MPPT	1/2	1/2	1/2	1/2	1/2			
Max. Input Current (A)	15/30	15/30	15/30	15/30	15/30			
Max. Short-circuit Current (A)	20/40	20/40	20/40	20/40	20/40			
Output								
Rated Output Power (W)	7,000	8,000	9,000	10,000	11,000			
Max. Output Power (W)	7,700	8,800	9,900	11,000	11,000			
AC output rated apparent power (VA)	7,000	8,000	9,000	10,000	11,000			
Max. Apparent Power (VA)	7,700	8,800	9,900	11,000	11,000			
Rated Output Voltage (V)			220/230					
Rated AC Frequency (Hz)		50/60						
AC output rated current (A)	30.4	34.8	39.1	43.5	47.8			
Max. Output Current (A)	33.5	38.3	43	47.8	47.8			
Power Factor		1						
Max. total harmonic distortion		<3% @Rated Output Power						
DCI		< 0.5%ln						
Efficiency	1							
Max. Efficiency	98.1%	98.1%	98.1%	98.1%	98.1%			
European Efficiency	97.6%	97.6%	97.6%	97.6%	97.6%			
MPPT Efficiency	99.9%	99.9%	99.9%	99.9%	99.9%			
Protection					1			
DC Reverse Polarity Protection			Integrated					
Insulation Resistance Protection			Integrated					
DC Switch			Optional					
Surge Protection			Integrated					
Over-temperature Protection			Integrated					
Residual Current Protection			Integrated					
Anti-islanding Protection			Integrated					
AC Short-circuit Protection			Integrated					
AC Over-voltage Protection			Integrated					
General Data								
Dimensions (mm)			550W*410H*175D					
Weight (kg)	2	4		26				
Protection Degree			IP65					
Self-consumption at Night (W)			<1					
Topology		< 1 Transformer less						
Operating Temperature Range (° C)	-30~60							
Relative Humidity (%)	-50~00							
Operating Altitude (m)								
Cooling	4000 (depreciativo@ > 3000) Natural Convection Smart Fan Cooling							
-	Natural Convection Smart Fan Cooling <25							
Noise Level (dB)	<	2.3	OLED & LED	> 40				
Display								
Communication	RS485/WiFi/GPRS/LAN (Optional)							

* : STS 11KTL available for Brazil only.

Single Phase:STS-7K~11KTL

Sunways Three Phase with Dual MPPT STT-4K~25KTL-P



SAFE & RELIABLE

♣ HIGH YIELD

- High reliability due to good heat dissipation design
- Integrated lightning protection for both DC and AC
- Adapt to complex power grid
- High anti-corrosion ability with aluminum alloy die casting technology
- Wider working temperature and altitude, adapt to various installation environments

• High yield with Max. 98.6% efficiency

- European weighted efficiency 98.2%
- Longer working hours due to the lower start-up voltage and wider MPPT range
- Up to 10% continuous output overloading capacity
- With a max input current of 15A, compatible with high-power panels

🛞 EASY TO USE

- Support wireless and wired internet connection (RS485, WiFi/GPRS/LAN optional)
- Remote upgrading available
- Fast and easy configuration via App or OLED display

Technical Parameters

Model	STT-4KTL-P	STT-5KTL-P	STT-6KTL-P	STT-8KTL-P	STT-10KTL-P	STT-12KTL-P	STT-15KTL-P	STT-17KTL-P	STT-20KTL-P	STT-25KTI
Input										
Max. Input Power (W)	6,400	8,000	9,600	12,800	16,000	19,200	24,000	27,200	32,000	40,000
Start-up Voltage (V)	180	180	180	180	180	180	180	180	180	180
Min. DC Voltage (V)	150	150	150	150	150	150	150	150	150	150
Max. DC Input Voltage (V)	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100
Rated DC Input Voltage (V)	620	620	620	620	620	620	620	620	620	620
MPPT Voltage Range (V)	160-1000	160-1000	160-1000	160-1000	160-1000	160-1000	160-1000	160-1000	160-1000	160-100
Number of MPP Trackers	2	2	2	2	2	2	2	2	2	2
Number of DC Inputs per MPPT	1	1	1	1	1	1	1/2	2	2	2
Max. Input Current (A)	15/15 1	15/15®	15/15 1	15/15 1	15/15 [®]	15/15 ¹	15/30 1	30/30 ¹	30/30 ¹	30/30
Max. Short-circuit Current (A)	20/20	20/20	20/20	20/20	20/20	20/20	20/40	40/40	40/40	40/40
Output										,
Rated Output Power (W)	4,000	5,000	6,000	8,000	10,000	12,000	15,000	17,000	20,000	25,000
	-		-							
Max. Output Power (W)	4,400	5,500	6,600	8,800	11,000	13,200	16,500	18,700	22,000	25,000
Max. Apparent Power (VA)	4,400	5,500	6,600	8,800	11,000	13,200	16,500	18,700	22,000	25,000
Rated Output Voltage (V)						230/400V				
Rated AC Frequency (Hz)						55Hz/55-65Hz				
Max. Output Current (A)	6.7	8.4	10	13.3	16.5	20	25	28.4	31.9	39
Power Factor						··0.8 lagging				
Max. Total Harmonic Distortion					< 3% @Rated		a			
DCI					< 0.5	5%In				
Efficiency						1	1	1	1	
Max. Efficiency	98.1%	98.1%	98.3%	98.3%	98.6%	98.6%	98.6%	98.6%	98.6%	98.6%
European Efficiency	97.9%	97.9%	98.0%	98.0%	98.2%	98.2%	98.2%	98.2%	98.2%	98.2%
MPPT Efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
Protection										
DC Reverse Polarity Protection					Integ	rated				
Insulation Resistance Protection					Integ	rated				
DC Switch					Opti	onal				
Surge Protection					Integ	rated				
Over-temperature Protection					Integ	rated				
Residual Current Protection					Integ	rated				
Anti-islanding protection					Frequency sh	ift, Integrated				
AC Short-circuit Protection					Integ	rated				
AC Over-voltage Protection					Integ	rated				
General Data										
Dimensions (mm)					550W*41	0H*175D				
Weight (kg)			2	23			26		29	
Protection Degree					IP	65				
Self-consumption at Night (W)					<	1				
Topology						mer less				
Operating Temperature Range (° C)						~60				
Relative Humidity (%)						100				
Operating Altitude (m)						ng@ > 3000)				
			Ma	tural Convect		11g@ > 3000)		C.	nart Fan Cooli	22
			Na	atural Convect	1011			Sr	nart Fan Cooli	пg
Noise Level (dB)				< 25	01 50	0.1.50			< 40	
Display						& LED	D			
Communication	15000100	ENC1000 01	0/011 +044-7		485, WiFi/GPR		-	DD1000_05	21.05.010	0010150
Compliance	IEC62109	, EN61000, C1	0/C11, AS4447		2016/631,VDE 49, IEC61727			кртеаа, cel-(JZI, CEI-016. N	ивктет20,

16 Sunways Technologies

Three Phase:STT-4K~25KTL-P

Sunways Three Phase with Four MPPT STT-30K~60KTL



SAFE & RELIABLE

A HIGH YIELD

- High reliability due to good heat dissipation design
- Integrated lightning protection for both DC and AC
- Adapt to complex power grid
- High anti-corrosion ability with aluminum alloy enclosure
- IP66, can be used in broader variety of harsh installation environments

• High yield with Max. 98.8% efficiency

- European weighted efficiency 98.3%
- Wide MPPT voltage range
- Up to 10% continuous output overloading capacity
- DC 2 in 1 connection enabled, compatible with high-power panels

🛞 EASY TO USE

- Plug and play connectors, easy for installation
- Support wireless and wired internet connection (RS485, WiFi/GPRS/LAN optional)
- Remote upgrading available
- Fast and easy configuration via App or OLED display

Technical Parameters

Model	STT-29.9KTL*	STT-30KTL	STT-33KTL	STT-36KTL	STT-40KTL	STT-45KTL	STT-50KTL-M	STT-60KTL-	
Input									
Max. Input Power (W)	47,840	48,000	52,800	57,600	64,000	72,000	80,000	96,000	
Start-up Voltage (V)	180	180	180	180	180	180	180	180	
Max. DC Input Voltage (V)	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	
Rated DC Input Voltage (V)	620	620	620	620	620	620	620	620	
MPPT Voltage Range (V)	180-1000	180-1000	180-1000	180-1000	180-1000	180-1000	180-1000	180-1000	
Number of MPP Trackers	4	4	4	4	4	4	4	4	
Number of DC Inputs per MPPT	2	2	2	2	2	2	2	2	
Max. Input Current (A)	26/26/26/26	26/26/26/26	26/26/26/26	26/26/26/26	26/26/26/26	26/26/26/26	26/26/26/26	26/26/26/2	
Max. Short-circuit Current (A)	40/40/40/40	40/40/40/40	40/40/40/40	40/40/40/40	40/40/40/40	40/40/40/40	40/40/40/40	40/40/40/4	
Output			1		1	1		1	
Rated Output Power (W)	29,900	30,000	33,000	36,000	40,000	45,000	50,000	60,000	
Max. Output Power (W)	29,900	33,000	36,300	39,600	44,000	49,500	55,000	66,000	
AC output rated apparent power(VA)	29,900	30,000	33,000	36,000	40,000	45,000	50,000	60,000	
Max. Apparent Power (VA)	29,900	33,000	36,300	39,600	44,000	49,500	55,000	66,000	
Rated Output Voltage (V)		30,000	50,000		380 / 400V		30,000		
Rated AC Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	
AC output rated current (A)	43.3	43.5	47.8	52.2	58.0	65.2	72.5	87.0	
Max. Output Current (A)	43.3	43.3	52.6	57.4	63.8	71.7	79.7	95.7	
Power Factor	43.3	41.0	52.0		0.8 lagging	11.1	19.1	95.1	
					00 0				
Max. total harmonic distortion					Output Power				
DCI				<0.5	5%In				
Efficiency	00.00/	00.00/	00.00/	00.00/	00.00/	00.00/	00.00/	00.00/	
Max. Efficiency	98.8%	98.8%	98.8%	98.8%	98.8%	98.8%	98.8%	98.8%	
European Efficiency	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%	
MPPT Efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	
Protection	1								
DC Reverse Polarity Protection				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	grated				
Insulation Resistance Protection				~	grated				
DC Switch					grated				
Surge Protection				Integ	grated				
Over-temperature Protection				Integ	grated				
Residual Current Protection				Integ	grated				
Anti-islanding protection				Frequency sh	nift, Integrated				
AC Short-circuit Protection				Integ	grated				
AC Over-voltage Protection				Integ	grated				
General Data									
Dimensions (mm)				600W*40	00H*270D				
Weight (kg)				2	12				
Protection Degree				IP	66				
Self-consumption at Night (W)				<	:1				
Topology		Transformerless							
Operating Temperature Range (° C)		-30~60							
Relative Humidity (%)				0~	100				
Operating Altitude (m)		4000 (derating@ > 3000)							
Cooling		4000 (derating@ > 3000) Smart Fan Coolling							
Display					& LED				
Communication					RS/LAN(Optional)				
					., =				

18 Sunways Technologies

*: STT 29.9KTL available for Australia only.

Three Phase:STT-30K~60KTL

Sunways Three Phase with Eight/Ten MPPT STT-80K~110KTL、100K/125KTL-HV



្លាំ INTELLIGENT

- Intelligent positioning abnormal string with integrated I/V scan function
- Real-time fault curve recording, improve O&M efficiency
- IP68 intelligent fans, lower operation temperature, longer lifespan
- Intelligent quad-core processor, information processing more comprehensive, fast, and efficient •

♣ HIGH YIELD

- High yield with Max. 98.8% efficiency
- Up to 10% continuous output overloading capacity
- 8/10 MPPT design, lower PV string mismatch loss
- DC 2 in 1 connection enabled, compatible with high-power panels

A CONVENIENCE

- Support wireless and wired internet connection (RS485, WiFi/GPRS/LAN optional)
- Remote upgrading available
- Fast and easy commissioning via App or OLED display

Technical Parameters

Model	STT-80KTL	STT-100KTL	STT-110KTL	STT-100KTL-HV	STT-125KTL-H				
Input									
Max. Input Power (W)	128,000	160,000	176,000	160,000	200,000				
Start-up Voltage (V)	200	200	200	200	200				
Max. DC Input Voltage (V)	1,100	1,100	1,100	1,100	1,100				
Rated DC Input Voltage (V)	620	620	620	750	750				
MPPT Voltage Range (V)	200-950	200-950	200-950	200-950	200-950				
Number of MPP Trackers	8	10	10	10	10				
Number of DC Inputs per MPPT	2	2	2	2	2				
Max. Input Current (A)	8*26	10*26	10*26	10*26	10*26				
Max. Short-circuit Current (A)	8*40	10*40	10*40	10*40	10*40				
Output					1				
Rated Output Power (W)	80,000	100,000	110,000	100,000	125,000				
Max. Output Power (W)	88,000	110,000	121,000	110,000	137,500				
Max. Apparent Power (VA)	88,000	110,000	121,000	110,000	137,500				
Rated Output Voltage (V)	-	3L/N/PE, 230/400V		3L/PE,2	188/500V				
Rated AC Frequency (Hz)			50/60Hz 45-55Hz/55-65Hz						
Max. Output Current (A)	127	158.8	174.8	127	158.8				
Power Factor			0.8 leading…0.8 legging						
Max. Total Harmonic Distortion		< 3% @ Rated Output Power							
DCI		< 3% @ Rated Output Power < 0.5% In							
Efficiency			0.070 111						
Max. Efficiency	98.8%	98.8%	98.8%	98.8%	98.8%				
European Efficiency	98.3%	98.3%	98.3%	98.3%	98.3%				
MPPT Efficiency	99.9%	99.9%	99.9%	99.9%	99.9%				
Protection									
DC Reverse Polarity Protection			Integrated						
Insulation Resistance Protection			Integrated						
DC Switch			Optional						
Surge Protection			Integrated						
Over-temperature Protection			Integrated						
Residual Current Protection			Integrated						
			~						
Anti-islanding protection AC Short-circuit Protection			Frequency shift, Integrated						
			Integrated						
AC Over-voltage Protection			Integrated						
General Data			07514/*0001/*0000						
Dimensions (mm)	70		975W*680H*290D	2					
Weight (kg)	79			2					
Protection Degree			IP65						
Self-consumption at Night (W)		<1							
Topology		Transformer less							
Operating Temperature Range (° C)	-30~60								
Relative Humidity (%)			0~100						
Operating Altitude (m)	4000 (derating@ > 3000)								
Cooling		Smart Fan Coolling							
Display			OLED & LED						
Communication			S485, WiFi/GPRS/LAN (Optior						
Compliance)、IEC62116、VDE 4105、VDE 49、IEC61727、IEC60068、IE		000				

Three Phase:STT-80K~110KTL、100K/125KTL-HV



Sunways Single Phase Storage Inverter with Two MPPT STH-3K~3.6KTL-HSS、STH-4.2K~8KTL-HS



Technical Parameters

	Model		STH-3KTL -HSS	STH-3.6KTL -HSS	STH-4.2KTL -HS	STH-4.6KTL -HS	STH-5KTL -HS	STH-6KTL -HS	STH-7KTL -HS	STH-8KTI -HS			
	Max. Input Power (W)		4,800	5,760	6,720	7,360	8,000	9,600	11,200	12,800			
	Start-up Voltage (V)		80	80	80	80	80	80	80	80			
	Max. DC Input Voltage (V)		600	600	600	600	600	600	600	600			
	Rated DC Input Voltage (V)		360	360	360	360	360	360	360	360			
PV Input	MPPT Voltage Range (V)		100-550	100-550	100-550	100-550	100-550	100-550	100-550	100-550			
	Number of MPP Trackers		1	1	2	2	2	2	2	2			
	Number of DC Inputs per MPPT		1	1	1	1	1	1	1	1			
	Max. Input Current (A)		15	15	15/15	15/15	15/15	15/15	15/15	15/15			
	Max. Short-circuit Current (A)		20	20	20/20	20/20	20/20	20/20	20/20	20/20			
	Battery Type		Lithium Battery (with BMS)										
	Battery Communication Mode		CAN / RS485										
Battery	Battery Voltage Range (V)						500						
Duttery	Max. Charge/Discharge Current (A)						/30						
	Rated Current of Built-in Fuse (A)						i3						
	Rated Output Power (W)		3,000	3,600	4,200	4,600	5,000	6,000	7,000	8,000			
	Max. Output Power (W)		3,300	3,960	4,600	4,600	5,500	6,600	7,700	8,000			
	Max. Output Power (W) Max. Apparent Power (VA)		3,300	3,960	4,600	4,600	5,500	6,600	7,700	8,000			
	Max. Input Apparent Power (VA)		6,000 [®]	7,200	8,400 [®]	9,200	10,000	12,000	12,000 1	12,000			
	Max. Charging Power of Battery (W)		3,000	3,600	4,200	4,600	5,000	6,000	7,000	8,000			
Output			5,000	3,000	4,200	,		0,000	1,000	0,000			
(Grid)	Rated Output voltage (v)			L/N/PE, 220/230/240V 50/60									
	Rated AC Frequency (Hz)		15	18	21	21	28.7	35	36.3				
	Max. Output Current (A) Power Factor		15	15 18 21 21 25/21.7 28.7 35 0.8 leading0.8 lagging									
	Max. Total Harmonic Distortion						Output Power						
	DCI		0.000	0.000	1.000	1	5%In		7.000	0.000			
	Rated Output Power (W)		3,000	3,600	4,200	4,600	5,000	6,000	7,000	8,000			
	Max. Output Power (W)		3,300	3,960	4,600	4,600	5,500	6,600	7,700	8,000			
	Back-up output rated apparent power	er (VA)	3,000	3,600	4,200	4,600	5,000	6,000	7,000	8,000			
	Max. Apparent Power (VA)		3,300	3,960	4,600	4,600	5,500	6,600	7,700	8,000			
Output	Back-up output rated current (A)		13	15.7	18.3	20	21.7	26.1	31.8	36.3			
Back-up)	Max. Output Current (A)		15	18	21	21	25/21.7	28.7	35	36.3			
	UPS switching time		<10ms	<10ms	<10ms	<10ms	<10ms	<10ms	<10ms	<10ms			
	Rated Output Voltage (V)					L/N/PE, 2	20/230/240	1					
	Rated AC Frequency (Hz)		50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60			
	Peak output apparent power (VA)		3,900 ² , 60s	4,700 ² , 60s	5,500 [°] , 60s	6,000 ² , 60s	6,500 ² , 60s	7,800 [©] , 60s	9,100 [©] , 60s	10,000 2, 6			
	Voltage harmonic distortion					<3% @Li	near load						
	Max. Efficiency		97.6%	97.6%	97.6%	97.6%	97.6%	97.6%	97.6%	97.6%			
	European Efficiency		97.0%	97.0%	97.0%	97.0%	97.0%	97.0%	97.0%	97.0%			
ficiency	Max. Battery Charging Conversion Eff	iciency	96.6%	96.6%	96.6%	96.6%	96.6%	96.6%	96.6%	96.6%			
	Max. Battery Discharge Conversion Efficiency		96.6%	96.6%	96.6%	96.6%	96.6%	96.6%	96.6%	96.6%			
rotection					General [Data							
C Reverse			Integrate	-d	Over Volta	age Category			PV:II;Maii	n : III			
	rse Polarity Protection		Integrate		Dimensio	0 0 7			550W*410H*				
	a Desistance Protection		0		Weight (kg	z)			26				
isulation R	n Resistance Protection		Integrate	ed	- Protection	<i>.</i>			IP65				
C Switch			Optiona	al		umption at Night	t (W)		< 15				
urge Prote	otection		Integrate	ed	Topology			Transformer less					
ver-tempe	perature Protection		Integrate	ed	Operating	, Temperature Ra		-30~60					
esidual Cu	Current Protection		Integrate	ed	Relative H	umidity (%)		0~100					
			equency Shift,		Operating	Altitude (m)		4000 (derating@	p > 3000)				
	-			-	Cooling			Natural Convection					
	tage Protection		Integrate		– Noise Lev	el (dB)			< 25				
verload Pr	rotection		Integrate	ed	Display				OLED & LI	ED			
	load Protection			Integrated Display Integrated Communication					WiFi / LAN (Optional)				

Compliance

IEC62109, EN61000, C10/C11, VDE 4105, UNE217001, UNE217002, RD647, RD1699, CEI021, G99, NRS097-2 ① Max apparent power from the grid means the maximum power imported from the utility grid used to satisfy the backup loads and charge the battery. ② The output power will exceed the rated value only when the power in the PV array is sufficient, and the duration of the overload is relating to the overload power.

Single Phase:STH-3K~3.6KTL-HSS、STH-4.2K~8KTL-HS



Sunways Three Phase Storage Inverter with Two MPPT $STH - 4K \sim 12KTL - HT - P$



On-grid Loads

Technical Parameters

	Model		STH-4KTL-HT	STH-5KTL-HT	STH-6KTL-HT	STH-8KTL-HT	STH-10KTL-HT	STH-12KTL-H
	Max. Input Power (W)		6,400	8,000	9,600	12,800	16,000	19,200
	Start-up Voltage (V)		150	150	180	180	180	180
	Max. DC Input Voltage (V)		1,000	1,000	1,000	1,000	1,000	1,000
	Rated DC Input Voltage (V)		620	620	620	620	620	620
PV Input	MPPT Voltage Range (V)		150-850	150-850	200-850	200-850	200-850	200-850
	Number of MPP Trackers		2	2	2	2	2	2
	Number of PV Inputs		1	1	1	1	1	1
	Max. Input Current (A)		16/16 (1)	16/16	16/16 1	16/16 ^①	16/16 ^①	16/16 [®]
	Max. Short-circuit Current (A)		18/18	18/18	18/18	18/18	18/18	18/18
	Battery Type				Lithium Batte	ery (with BMS)		
	Battery Communication Mode				CAN /	RS485		
Battery	Battery Voltage Range (V)				140	-750		
	Max. Charge/Discharge Current (A)				25,	/25		
	Rated Current of Built-in Fuse (A)				6	3		
	Rated Output Power (W)		4,000	5,000	6,000	8,000	10,000	12,000
	Max. Output Power (W)		4,400	5,500	6,600	8,800	11,000	13,200
	Max. Apparent Power (VA)		4,400	5,500	6,600	8,800	11,000	13,200
	Max. Input Apparent Power (VA)		8,000 2	10,000 2	12,000 2	16,000 [@]	16,500 [®]	16,500 2
	Max. Charging Power of Battery (W)		4,000	5,000	6,000	8,000	10,000	12,000
Output (Grid)	Rated Output Voltage (V)				3L/N/PE,	230/400V	1	
(Grid)	Rated AC Frequency (Hz)				50/60Hz 45-5	55Hz/55-65Hz		
	Max. Output Current (A)		6.7	8.3	10	13.3	16.5	20
	Power Factor				0.8 leading ·	··0.8 lagging		
	Max. Total Harmonic Distortion					Output Power		
	DCI				< 0.5	5%In		
	UPS Switching Time				< 1()ms		
	Rated Output Voltage (V)				3L/N/PE,	230/400V		
	Rated AC Frequency (Hz)				50/60Hz 45-5	55Hz/55-65Hz		
Output	Max. Apparent Power (VA)		4,400	5,500	6,600	8,800	11,000	13,200
(Back-up)	Peak output apparent power (VA)		8,000 ³ , 60s	10,000 ³ , 60s	12,000 ³ , 60s	16,000 ³ , 60s	20,000 ³ , 60s	20,000 ³ , 60
	Peak Output Apparent Power/per F	hase (VA)	1,600 (4)	2,100®	2,600 @	3,300®	4,000 ®	5,000 @
	Voltage Harmonic Distortion	. ,			< 3% @Li	near Load	,	,
	Max. Efficiency		98.1%	98.1%	98.1%	98.2%	98.2%	98.2%
	European Efficiency		97.3%	97.3%	97.3%	97.4%	97.4%	97.4%
Efficiency	Max. Battery Charging Conversion	Efficiency	97.2%	97.2%	97.2%	97.3%	97.3%	97.3%
	Max. Battery Discharge Conversion	-	97.2%	97.2%	97.2%	97.3%	97.3%	97.3%
	, ,					I		
rotection				General I				
OC Reverse Po	olarity Protection		Integrated	Dimensio			550W*41	
Battery Input	Reverse Connection Protection		Integrated	Weight (k			26-	
nsulation Res	istance Protection		Integrated	Protection	0		IP	
OC Switch			Optional		umption at Night (W)	<	
urge Protecti	on		Integrated	Topology				mer less
)ver-tempera	ture Protection		Integrated		; Temperature Rang	e (° C)	-30	
	ent Protection		Integrated	Relative H	2		0~10	
nti-islanding		Freques	cy Shift, Integrated		gAltitude (m)		4000 (derati	-
		riequell		Cooling				onvection
	ge Protection		Integrated	Noise Lev	el (dB)			25
Overload Prot			Integrated	Display			OLED	
AC Short-circu	it Protection		Integrated	Commun	ication		WiFi / LAN	(Optional)

① STH-4K~12KTL-HT series maximum input current per string is 13A, products deliver upon the order. ② Max apparent power from the grid means the maximum power imported from the utility grid used to satisfy the backup loads and charge the battery. ③ The output power will exceed the rated value only when the power in the PV array is sufficient, and the duration of the overload is relating to the overload power.

24 Sunways Technologies

----- RS485

High-voltage

Li-ion Battery

Grid

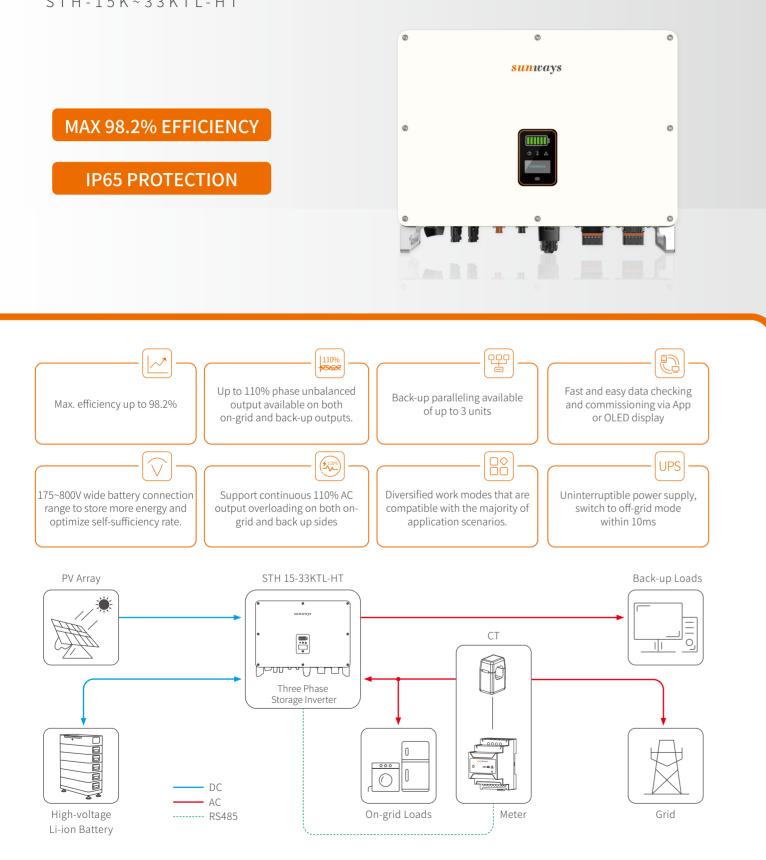
Meter

3 Only one of the three phases can reach up to 1.25 times, and the other two phases should be less than 1.1.

Three Phase:STH-4K~12KTL-HT-P



Sunways Three Phase Storage Inverter with Two MPPT STH-15K~33KTL-HT



Technical Parameters

	Model		STH-15KTL -HT	STH-17K -HT	TL STH-20KTL -HT	STH-25KTL -HT	STH-29.9KTL -HT	STH-30KTL -HT	STH-33K1 -HT			
	Max. Input Power (W)		22,500	25,500	30,000	37,500	44,850	45,000	49,500			
	Start-up Voltage (V)		175	175	175	175	175	175	175			
	Max. DC Input Voltage (V)		1000	1000	1000	1000	1000	1000	1000			
	Rated DC Input Voltage (V)		620	620	620	620	620	620	620			
	MPPT Voltage Range (V)		200-850	200-850	200-850	200-850	200-850	200-850	200-850			
PV Input	Number of MPP Trackers		2	2	2	2	2	2	2			
	Number of DC Inputs per MPPT		2	2	2	2	2	2	2			
	Max. Input Current (A)		32/32	32/32	32/32	32/32	32/32	32/32	32/32			
	Max. Short-circuit Current (A)		40/40	40/40	40/40	40/40	40/40	40/40	40/40			
	backfeed current to the array (A)		0	0	0	0	0	0	0			
	Battery Type		Lithium battery (with BMS)									
	Battery communication mode		CAN / RS485									
Detter	Battery voltage range (V)					175-800						
Battery	Maximum charging current (A)					50						
	Maximum discharge current (A)					50						
	Rated current of built-in fuse (A)					125						
	Rated Output Power (W)		15,000	17,000	20,000	25,000	29,900	30,000	33,000			
	Max. Output Power (W)		16,500	18,700	22,000	27,500	29,900	33,000	36,300			
	AC output rated apparent power	(VA)	15,000	17,000	20,000	25,000	29,900	30,000	33,000			
	Max. Apparent Power (VA)	1 11 1 1 7		18,700	22,000	27,500	29,900	33,000	36,300			
	Max. Input Apparent Power (VA)		20,000 1	22,000 0	26,000 1	33,000 1	39,000 ¹	39,000 ¹	42,000			
Output	Rated Output Voltage (V)				3	L/N/PE, 230(4	00)					
(Grid)	Rated AC Frequency (Hz)		50/60	50/60	50/60	50/60	50/60	50/60	50/60			
	AC output rated current (A)		21.7	24.6	29.0	36.2	43.3	43.5	47.8			
	Max. Output Current (A)		25.0	28.3	33.3	41.7	49.8	50.0	55.0			
	Power Factor				0.0	leading …0.8 lag	ging					
	Max. total harmonic distortion				<3%	@Rated Output	Power					
	DCI			<0.5%In								
	Rated Output Power (W)		15,000	17,000	20,000	25,000	29,900	30,000	33,000			
	Max. Output Power (W)		16,500	18,700	22,000	27,500	29,900	33,000	36,300			
	Back-up output rated apparent p	ower (VA)	15,000	17,000	20,000	25,000	29,900	30,000	33,000			
	Max. Apparent Power (VA)		16,500	18,700	22,000	27,500	29,900	33,000	36,300			
Output	Back-up output rated current (A)		21.7	24.6	29.0	36.2	43.3	43.5	47.8			
(Back-up)	Max. Output Current (A)		25.0	28.3	33.3	41.7	49.8	50.0	55.0			
	UPS switching time		<10ms	<10ms	<10ms	<10ms	<10ms	<10ms	<10ms			
	Rated Output Voltage (V)		3L/N/PE, 230 (400)									
	Rated AC Frequency (Hz)		50/60	50/60	50/60	0 50/60 50/60						
	Voltage harmonic distortion				1	<3% @Linear loa	d					
	Max. Efficiency		98.1%	98.1%	98.1%	98.2%	98.2%	98.2%	98.2%			
	European Efficiency		97.3%	97.3%	97.3%	97.4%	97.4%	97.4%	97.4%			
Effeiciency	MPPT Efficiency		99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%			
	Max battery charging conversion	efficiency	97.2%	97.2%	97.2%	97.3%	97.3%	97.3%	97.3%			
	Max battery discharge conversion	efficiency	97.2%	97.2%	97.2%	97.3%	97.3%	97.3%	97.3%			
rotection					General Data							
	larity Protection		Integrated		Over voltage catego	10/		PV: II;Ma	ain: III			
	-		~		Dimensions (mm)	'' y		600W*400H				
	reverse connection protection		Integrated	-	Weight (kg)			45	. 2008			
	istance Protection		Integrated	-	Protection Degree			IP65				
C Switch			Optional	-	Self-consumption a	t Night (W)		<15				
urge Protecti	on		Integrated	-	Topology			Transform	er less			
ver-temperat	ture Protection		Integrated		Operating Tempera	ture Range (° C)		-30~6	0			
esidual Curre	ent Protection		Integrated		Relative Humidity (%)		0~100)			
nti-islanding	protection	Frequer	ncy shift, Integrat	Leu -	Operating Altitude	m)		4000 (derating				
	ge Protection		Integrated		Cooling			Smart Fan O	Cooling			
verload prote	-		Integrated	-	Noise Level (dB)			<50				
			~	-	Display			OLED &				
SUUT-CITCH	it Protection		Integrated		Communication			WiFi/LAN (O	ptional)			

26 Sunways Technologies

① Max apparent power from the grid means the maximum power imported from the utility grid used to satisfy the backup loads and charge the battery.

Three Phase:STH-15K~33KTL-HT

IEC62109, IEC62116, VDE4105, VDE0126, AS4777, RD1699, NBR16149, IEC61727, IEC60068, IEC61683, EN50549, EN61000, NRS097-2-1, IEC/EN 62477-1



Charge your battery within one hour

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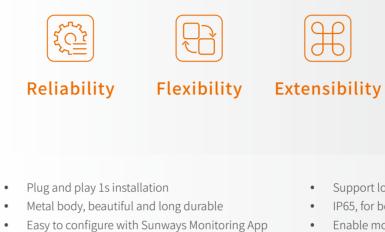
Optional battery capacity ranges from 5.12-20.48kWh





PRODUCT INTRODUCTION

WIFI Module



Technical Parameters

Model	STE-BS5*	STE-BS7**	STE-BS10**	STE-BS12**	STE-BS15**	STE-BS17**	STE-BS20**
Nominal Capacity (kWh)	5.12	7.68	10.24	12.8	15.36	17.92	20.48
Nominal Capacity (Ah)	50	50	50	50	50	50	50
Nominal Voltage (V)	102.4	153.6	204.8	256	307.2	358.4	409.6
Maximum Charge/Discharge Current (A)	50	50	50	50	50	50	50
Recommend Continuous Charge/Discharge Current (A)	25	25	25	25	25	25	25
Weight (kg)	78.6	110.9	143.2	175.5	207.8	240.1	272.4
Dimension[W*H*D] (mm)	700*456*315	700*616*315	700*776*315	700*936*315	700*1096*315	700*1256*315	700*1416*315
Protection Degree				IP54			
Cycle Life	6,000 cycles @80% DOD						
Charging Temperature Range (°C)				0~45			
Discharging Temperature Range (°C)				-10~45			
Relative humidity			5%-9	5% (No condens	ation)		
Altitude (m)				2000			
Internal Battery Module			STE-I	M2560-S/STE-P2	560-S		
Module Connection			Series / Hare	d Connection wit	th Positioner		
Installation Method	Stackable						
Module Number	2	3	4	5	6	7	8
Communication Protocol/Connector Type		CAN/RJ45					
Certification			CE	E/IEC62619/UN38	8.3		

* STH 3~8KTL-HS series suitable battery range from STE-BS5-BS20.

* STH 4~12KTL-HT series suitable battery range from STE-BS7-BS20.

Technical Parameters

General Data	
Max. number of Inverters	1
Inverter Communication	USB3.0
Remote Communication	WIFI (802.11 b/g/n)
Serial Port Communication Rate (bps)	115200
Communication Distance (M)	100 (without obstacles)
External Antenna	SMA water-proof glue stick antenna
Data Intervals	Remote configuration available
Preference Setting	Remote Web、APP
Data Access	Remote server
Working Voltage (V)	DC 5
Working Current (mA)	80 (200 Peak)
Wireless Data	
WiFi Transmitting Power	802.11b: +16 +/-2dBm (@11Mbps)、 802.11g: +14 +/-2dBm (@54Mbps)、 802.11n: +13 +/-2dBm (@HT20, MCS7)
WiFi Receiving Sensitivity	802.11b: -87 dBm (@11Mbps ,CCK)、 802.11g: -73 dBm (@54Mbps, OFDM)、 802.11n: -71 dBm (@HT20, MCS7)
WiFi Operating Frequency (GHz)	2.412-2.484
Environmental Data	
Operating Temperature (°C)	-10~+60
Operating Humidity	0%-90% relative humidity, no condensation
Storage Temperature (°C)	-40~+85
Storage Humidity (%)	< 40
Protection Degree	IP65
Other Data	
Dimensions (mm)	156L*52W*30H
Weight (g)	130
Certificates	CE
Warranty	2 years



- Support local and remote monitoring
- IP65, for both indoor and outdoor installation
- Enable mobile monitoring at anytime anywhere

GPRS Module M Reliability Flexibility Easy to use

COM

- Metal body, beautiful and long durable
- Plug and play 1s installation, no need to set
- Support local and remote monitoring
- IP65, for both indoor and outdoor installation
- External SIM card slot, easier for SIM card replacement
- External antenna, stronger signal and reliable communication
- Enable mobile monitoring at anytime anywhere

PRODUCT INTRODUCTION

LAN Module





Reliability

Easy to use

- Plug and play 1s installation
- Data encrypted to ensure data security
- Supports breakpoint retransmission

Technical Parameters

General Data	
Max. number of Inverters	1
Inverter Communication	USB3.0
External Antenna	SMA water-proof glue stick antenna
Data Intervals	Remote configuration available
Preference Setting	Remote Web、APP
Data Access	Remote server
Working Voltage (V)	DC 5
Working Current (mA)	130 (600 Peak)
Wireless Data	
WirelessTransmitting Power (dbm)	GSM850/EGSM900: 5~32.5、DCS1800/PCS1900: 0~29.5
Wireless Receiving Sensitivity (dBm)	< -108.5
Wireless Operating Frequency	GSM850, EGSM900, DCS1800, PCS1900
GPRS Connection Features	GPRS multi-slot class is 10 (default), GPRS mobile station class B
Environmental Data	
Operating Temperature (°C)	-10~+60
Operating Humidity (%)	0-90 relative humidity, no condensation
Storage Temperature (°C)	- 40~+85
Storage Humidity (%)	< 40
Protection Degree	IP65
Other Data	
Dimensions (mm)	156L*52W*30H
Weight (g)	140
Certificates	SRRC
Warranty	2 years

Technical Parameters

General Data	
Max. number of Inverters	1
Inverter Communication	USB3.0
Remote Communication	IEEE802.3 10
Serial Port Communication Rate(bps)	115200
Communication Distance(M)	100 (MAX)
Data Intervals	Remote configuration available
Preference Setting	Remote Web、APP
Data Access	Remote server
Working Voltage(V)	DC 5
Working Current (mA)	100 (220 Peak)
Environmental Data	
Operating Temperature (°C)	-30~+75
Operating Humidity	0%-90% relative humidity, no condensation
Storage Temperature (°C)	-40~+85
Storage Humidity	< 40%
Protection Degree	IP65
Other Data	
Dimensions (mm)	116L*52W*30H
Weight (g)	100
Certificates	CE
Warranty	2 years



- Remote upgrade available
- Stable and reliable data transmission via wired internet cable
- Default dynamic IP mode and static IP commissioning available

Sunways Smart Meter









limitation & control CT are available



Compatible with

High current measurement various grid types precision

6



PRODUCT INTRODUCTION

Sunways Energy Manager

measurement precision consumption monitoring

STK



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High current

৵ৢ৾৽ Various models of CT

are available

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Compatible with various grid types



न्ध्री Integrated features of

WiFi/LAN/RS485

Technical Parameters

Model		STM
Voltage		85~280V
Frequency		50/60Hz
Rated Current		90A/120A/300A (With CT)
Self-consumption		<3W
Data Detection		Current/Voltage/Active Power/Reactive Power/Power Factor/Frequency
Energy Calculation		Bidirectional Active/Reactive Power Energy
Precision	Active Power	Class 1 (IEC 62053-22)
	Reactive Power	Class 1 (IEC 62053-23)
Communication		Modbus RTU (RS485)
Interface		3 LED, Reset Button
Mechanical Parameters	Terminal capacity	0.5~4mm ²
	Size (L*W*H)	85*54*75mm
	Weight	150g
	Protection Class	IP20 (For Indoor Use)
	Installation Method	35mm DIN Rail
Operating Temperature		-25 ~ +60° C
Operating Humidity		<95%, No Condensation
Altitude		<2500m

Technical Parameters

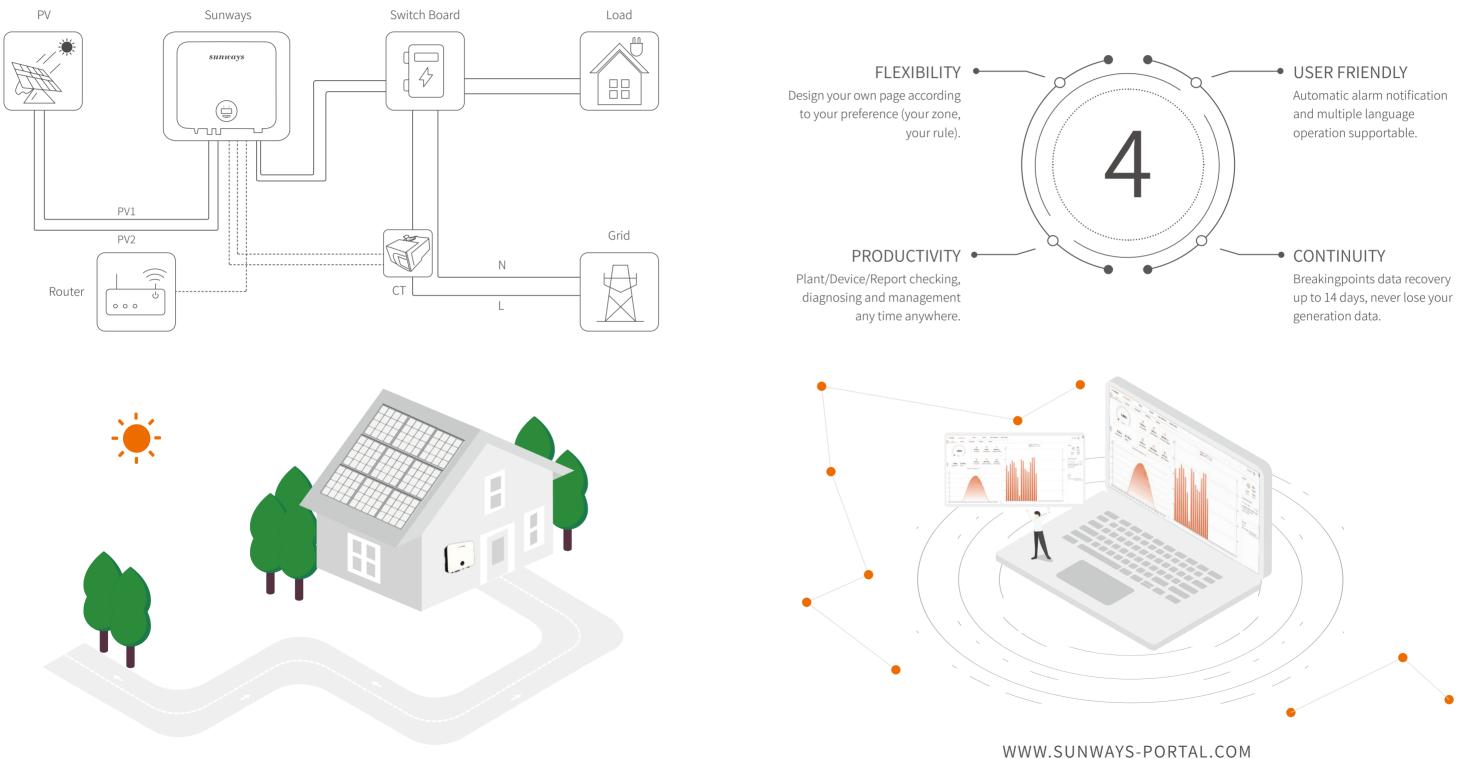
Model		STK
Voltage		85~280V
Frequency		50/60Hz
Rated Current		90A/120A/300A (With CT)
Self-consumption		<5W
Data Detection		Current/Voltage/Active Power/Reactive Power/Power Factor/Frequency
Energy Calculation		Bidirectional Active/Reactive Power Energy
Precision	Active Power	Class 1 (IEC 62053-22)
	Reactive Power	Class 1 (IEC 62053-23)
Communication		Modbus RTU (RS485)、WiFi/LAN/Bluetooth
Interface		5 LED, Reset Button
Mechanical Parameters	Terminal capacity	0.5~4mm ²
	Size (L*W*H)	85*54*75mm
	Weight	150g
	Protection Class	IP20 (For Indoor Use)
	Installation Method	35mm DIN Rail
Operating Temperature		-25 ~ +60° C
Operating Humidity		<95%, No Condensation
Altitude		<2500m
Parallel Connection		Optional





■ APPLY SCENARIOS

Generally, Grid connected PV inverters are used on the residential and commercial roof. The PV system consists of photovoltaic array, grid-connected inverter, grid, and load. According to the application scenarios which has been choosen is all power exported to grid or only surplus power exported to the grid to decide whether the load should be connected to the system.



WEB

34 Sunways Technologies

MONITORING 03

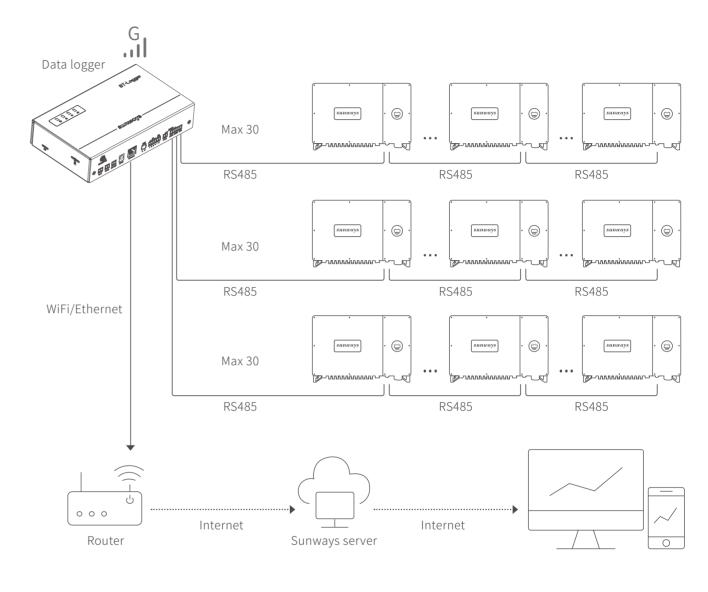
See what our portal offers you

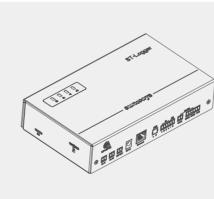


■ APP Key features

MONITORING SYSTEM







Data logger

Flexible Networking

Convenient O&M

- - Plant maintenance by remote Web access, optimized OPEX

- Monitoring of up to 90 devices
- Support of RS485, Ethernet, WiFi and GPRS communication
- Support of energy meter, meteo station, sensors and other equipment access
- Active and reactive power control
- 100% data availability through 24/7 operations
- Inverter batch parameter setting and firmware updates



$04 \, \text{why us}$

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■ CERTIFICATES

SAA

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WHY CHOOSE SUNWAYS

Excellent R&D

CBB (common building block) product design concept that has been widely used in our hardware design and firmware control makes Sunways' reaction to new technology in the market faster than our competitors and ensures the stability of our supply chain.



Excellent Reliability

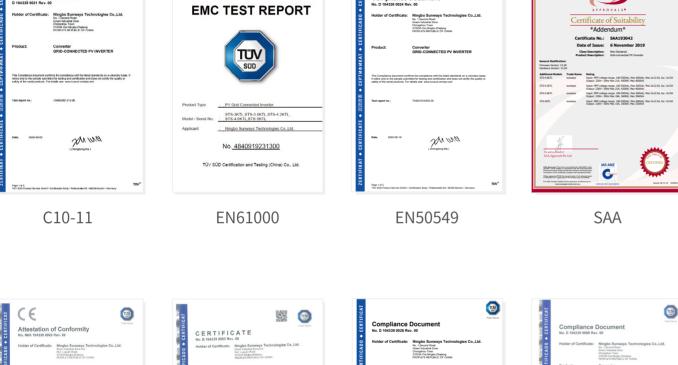
Sunways is fully certified by professional and authoritative third-party testing organizations.

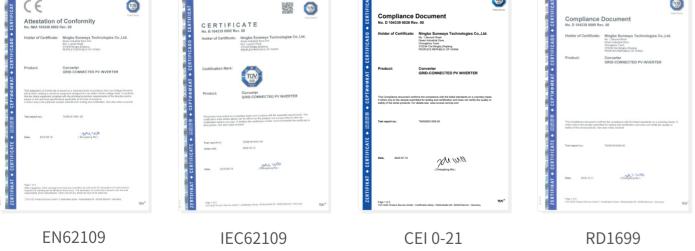


Excellent Support

Professional

Sunways global service team is always ready to give expert, rapid, and localized service.

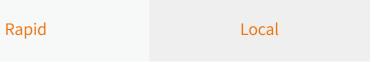




For more latest certificates, please visit us at www.sunways-tech.com to download.



TÜVRheinland



05 CASE STUDY



Project Address: Lishui, China Project Capacity: 3.168MW Inverter: 48 sets of Sunways STT 60kW inverter





Project Address: Udine, Italy Project Capacity: 6.6MW





Project Address: Serra, Brazil Project Capacity: 390kW Inverter: 6 sets of Sunways STT 60kW inverter

- Inverter: 522 sets of Sunways STT 12kW inverter







Project Address: Danang, Vietnam Project Capacity: 100kW Inverter: 4 sets of Sunways STT 25kW inverter





Project Address: Silang Cavite, Philippines Project Capacity: 64.8kW Inverter: 2 sets of Sunways STT 33kW inverter





Project Address: Drnis, Croatia Project Capacity: 10kW Inverter: 1 set of Sunways STT 10kW inverter





Project Address: Poland Project Capacity: 10kW Inverter: 1 set of Sunways STH 10kW inverter







Project Address: Colombo, Sri Lanka Project Capacity: 7.4kW Inverter: 2 sets of Sunways STS 3kW inverter





Project Address: Gujarat, India Project Capacity: 5kW Inverter: 1 set of Sunways STS 5kW inverter

sunways



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