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SOLAR INVERTER AND MORE 2026 On-grid Inverter Datasheet

German Heritage Since 1993

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- MAX. EFFICIENCY 97.5%
- IP65 PROTECTION

- 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



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
Grid Type (V)**	220/230					
AC voltage range	184 V - 276 V					
Rated AC Frequency (Hz)	50/60 45-55/55-65					
Max. Output Current (A)	4.8	7.2	9.6	12	14.4	14.4
Power Factor	0.8 leading...0.8 lagging					
THDi @ Rated Power	< 3%					
DCI	< 0.5%In					

Protection	
DC Reverse Polarity Protection	Integrated
Insulation Resistance Detection	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

** Due to differences in voltage values in various countries, minor variations may occur. The final interpretation rights belong to Sunways.

- 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

ON-GRID INVERTER



- MAX. EFFICIENCY 97.5%
- IP66 PROTECTION

STS 3~4kW

SINGLE PHASE | 1 MPPT | ON-GRID

- 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

SAFE & RELIABLE



- High yield with Max. Efficiency 97.6%
- European weighted efficiency 97.2%
- Wide MPPT voltage range
- Up to 10% continuous output overloading capacity
- Single MPPT design with precise MPPT algorithm

HIGH YIELD



- 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

EASY TO USE



Model	STS-3KTL-M	STS-3.3KTL-M	STS-3.6KTL-M	STS-4KTL-M
Input				
Start-up Voltage (V)	100	100	100	100
Max. DC Input Voltage (V)	600	600	600	600
Rated DC Input Voltage (V)	360	360	360	360
MPPT Voltage Range (V)	80-550	80-550	80-550	80-550
Number of MPP Trackers	1	1	1	1
Number of DC Inputs per MPPT	1	1	1	1
Max. Input Current (A)	20	20	20	20
Max. Short-circuit Current (A)	25	25	25	25

Output

Rated Output Power (W)**	3,000	3,300	3,680	4,000
Max. Output Power (W)	3,300	3,300	3,680	4,000
AC output rated apparent power (VA)	3,000	3,300	3,680	4,000
Max. Apparent Power (VA)	3,300	3,300	3,680	4,000
Grid Type (V)**	220/230			
Rated AC Frequency (Hz)	50/60			
AC output rated current (A)	13	14.3	16	17.4
Max. Output Current (A)	13.6	15	16	18.2
Power Factor	0.8 leading...0.8 lagging			
THDi @ Rated Power	<3% @Rated Output Power			
DCI	< 0.5%In			

Efficiency

Max. Efficiency	98.1%	98.1%	98.1%	98.1%
Euro Efficiency	97.5%	97.5%	97.5%	97.5%
MPPT Efficiency	99.9%	99.9%	99.9%	99.9%

Protection

DC Reverse Polarity Protection	Integrated
Insulation Resistance Detection	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 [W*H*D] (mm)	327*297*114
Weight (kg)	6.5
Protection Degree	IP66
Self-consumption at Night (W)	< 1
Topology	Transformerless
Operating Temperature Range (°C)	-30~60
Relative Humidity (%)	0~100
Operating Altitude (m)	3000
Cooling	Smart Fan Cooling
Noise Level (dB)	<40
Display	OLED
Communication	RS485/Wifi/GPRS/LAN (Optional)

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- MAX. EFFICIENCY 98.1%
- IP66 PROTECTION
- AFCI OPTION, SAFETY UP

The image shows a white square background with rounded corners. At the top center, the word "sunways" is written in a lowercase, sans-serif font. The "sun" part is in orange, and the "ways" part is in black. Below the text, centered, is a circular digital display. The display has a black face with a silver-colored outer ring. It shows two small icons at the top: a sun on the left and a leaf on the right. Below these icons is a small rectangular screen displaying the number "12.3". At the bottom of the display, there is a small, stylized logo that looks like a leaf or a flame.

- ## SAFE & RELIABLE



- ## HIGH YIELD



- ### EASY TO USE



Output						
Rated Output Power (W)**	3000	3680	4000	4600	5000/4990	6000
Max. Output Power (W)	3300	3680	4400	5060	5500/4990	6600
Max. Apparent Power (VA)	3300	3680	4400	5060	5500/4990	6600
Grid Type (V)**	220/230					
AC voltage range	184 V - 276 V					
Rated AC Frequency (Hz)	50/60					
Max. Output Current (A)	15	16	20	23	25/21.7	30
Power Factor	0.8 leading...0.8 lagging					
THDi @ Rated Power	<3%					
DCI	<0.5%In					

Protection		
DC Reverse Polarity Protection		Integrated
Insulation Resistance Detection		Integrated
AFCI		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

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ON-GRID INVERTER



- **MAX. EFFICIENCY 98.1%**
- **IP66 PROTECTION**

STS 7.5~8kW
SINGLE PHASE | 2 MPPT | ON-GRID

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

SAFE & RELIABLE



- High yield with Max. Efficiency 98.1%
- European weighted efficiency 97.5%
- Wide MPPT voltage range
- With a max input current of 20A, compatible with high-power panels

HIGH YIELD



- 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

EASY TO USE



Model	STS-7.5KTL-SE	STS-8KTL-SE
Input		
Start-up Voltage (V)	100	100
Max. DC Input Voltage (V)	600	600
Rated DC Input Voltage (V)	360	360
MPPT Voltage Range (V)	80~550	80~550
No. of MPP Trackers	2	2
No. of DC Inputs per MPPT	1/1	1/1
Max. Input Current (A)	20/20	20/20
Max. Short-circuit Current (A)	25/25	25/25
Output		
Rated Output Power (W)**	7500	8000
Max. Output Power (W)	7500	8000
AC output rated apparent power(VA)	7500	8000
Max. Apparent Power (VA)	7500	8000
Grid Type (V)**	220/230	
Rated AC Frequency (Hz)	50/60	
AC output rated current(A)	32.6	34.8
Max. Output Current (A)	34.1	36.3
Power Factor	0.8 leading ...0.8 lagging	
THDi @ Rated Power	<3% @Rated Output Power	
DCI	<0.5%In	
Efficiency		
Max. Efficiency	98.1%	
Euro Efficiency	97.5%	
MPPT Efficiency	99.9%	
Protection		
DC Reverse Polarity Protection	Integrated	
Insulation Resistance Detection	Integrated	
Dc Switch	Optional	
AFCI	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 [W*H*D] (mm)	410*360*120	
Weight (kg)	13	
Protection Degree	IP66	
Self-consumption at Night (W)	<1	
Topology	Transformer less	
Operating Temperature Range (°C)	-30~60	
Relative Humidity (%)	0~100	
Operating Altitude (m)	3000 (derating@ > 2000)	
Cooling	Smart Fan Cooling	
Noise Level (dB)	< 65	
Display	OLED	
Communication	RS485/WIFI/GPRS/LAN (Optional)	

** Due to differences in voltage values in various countries, minor variations may occur.

- **MAX. EFFICIENCY 98.1%**
- **IP65 PROTECTION**

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



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
Grid Type (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	0.8 leading...0.8 lagging				
THDi @ Rated Power	<3%				
DCI	< 0.5%In				

Protection	
DC Reverse Polarity Protection	Integrated
Insulation Resistance Detection	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

* STS 11KTL is only available for Brazil.

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STT 4~25kW

THREE PHASE | 2 MPPT | ON-GR

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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
Grid Type (V)**	3L/N/PE, 230/400V									
Rated AC Frequency (Hz)	50/60 45-55/55-65									
Max. Output Current (A)	6.7	8.4	10	13.3	16.5	20	25	28.4	31.9	39
Power Factor	0.8 leading...0.8 lagging									
THDi @ Rated Power	< 3%									
DCI	< 0.5%In									

Protection	
DC Reverse Polarity Protection	Integrated
Insulation Resistance Detection	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

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STT 10~20kW
THREE PHASE | 2/2 MPPTS | ON-GRID

- ## SAFE & RELIABLE



- ## HIGH YIELD



- ## EASY TO USE



** Due to differences in voltage values in various countries, minor variations may occur. The final interpretation rights belong to Sunways.

- **MAX. EFFICIENCY 98.6%**
- **IP66 PROTECTION**

STT 15~30kW
THREE PHASE | 1/2 MPPTS | ON-GRID

- Integrated surge protection for both DC and AC
- IP66 design ensures reliable performance for outdoor applications
- Integrated AFCI Functionality for Enhanced Safety
- Capable of operating flawlessly under phase shifts and harmonic grids

SAFE & RELIABLE



- High yield with Max. Efficiency 98.6% , European weighted efficiency 98.2%
- Up to 150% Oversizing of Attached PV Arrays for Increased Flexibility and Efficiency
- Increased PV panels current to 20A and MPPT switching frequency to 20KHz, reducing overall weight
- Up to 10% continuous output overloading capacity

HIGH YIELD



- Support wireless and wired internet connection (RS485, WiFi/GPRS/LAN optional)
- Remote upgrading available
- Real-time temperature monitoring and protection for multiple power transistors
- Effortless commissioning and monitoring through the Sunways Portal APP

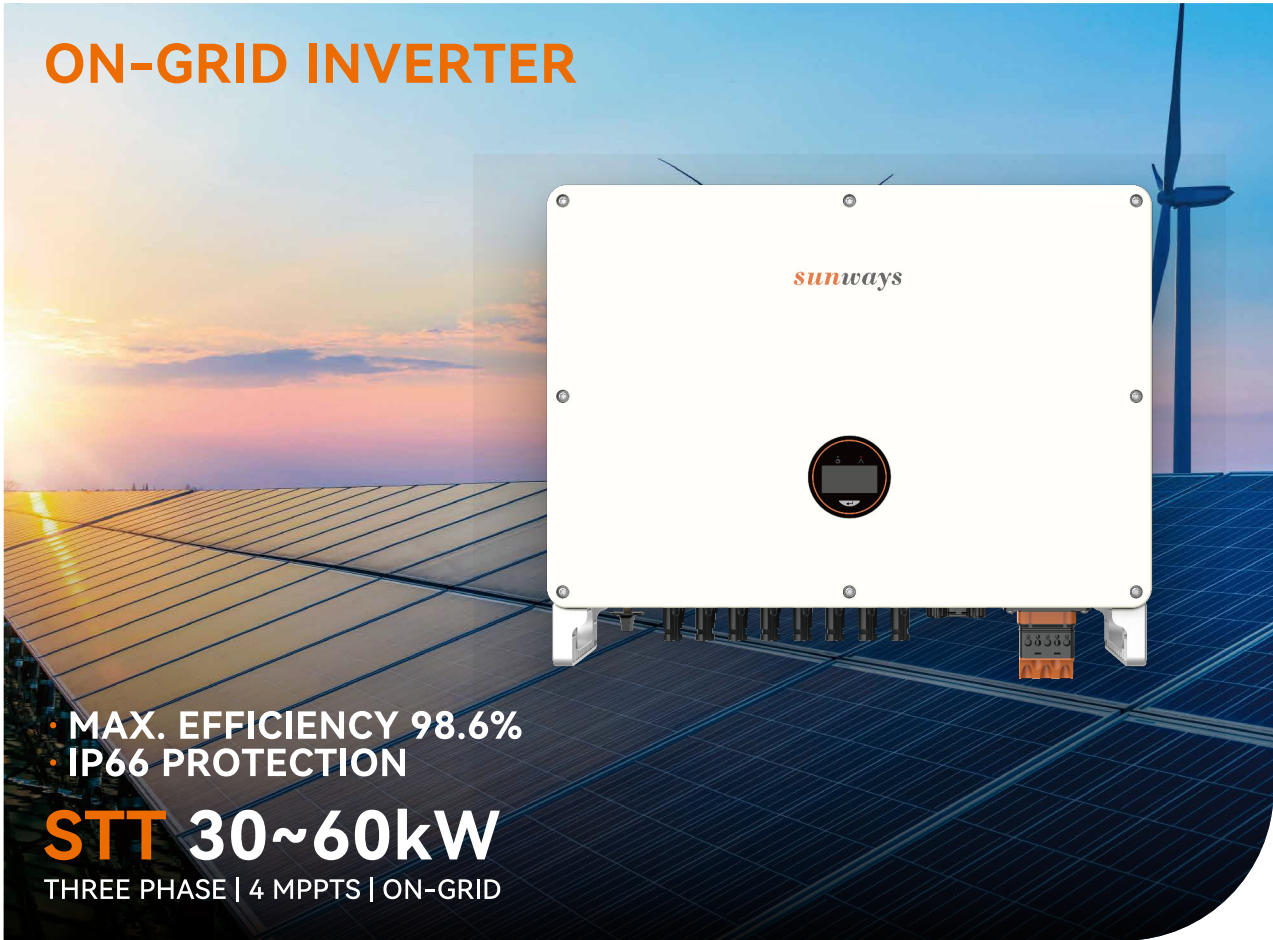
EASY TO USE



Model	STT-15KTL-SE-S	STT-15KTL-SE	STT-20KTL-SE	STT-25KTL-SE	STT-30KTL-SE
Input					
Start-up Voltage (V)	180	180	180	180	180
Max. DC Input Voltage (V)	1100	1100	1100	1100	1100
Rated DC Input Voltage (V)	620	620	620	620	620
MPPT Voltage Range (V)	200~950	200~950	200~950	200~950	200~950
No. of MPP Trackers	1	2	2	2	2
No. of DC Inputs per MPPT	2	2/2	2/2	2/2	2/2
Max. Input Current (A)	40	40/40	40/40	40/40	40/40
Max. Short-circuit Current (A)	50	50/50	50/50	50/50	50/50
Output					
Rated Output Power (W)	15000	15000	20,000	25000	30000
Max. Output Power (W)	16500	16500	22,000	27500	33000
AC output rated apparent power (VA)	15000	15000	20,000	25000	30000
Max. Apparent Power (VA)	16500	16500	22,000	27500	33000
Rated Output Voltage (V)	3 / N / PE, 230 / 400V				
Rated AC Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
AC output rated current (A)	21.6	21.6	29	36.2	43.5
Max. Output Current (A)	23.8	23.8	31.9	39.8	47.8
Power Factor	0.8 leading ...0.8 lagging				
THDi @ Rated Power	<3%				
DCI	<0.5%In				
Efficiency					
Max. Efficiency	98.6%	98.6%	98.6%	98.6%	98.6%
Euro Efficiency	98.2%	98.2%	98.2%	98.2%	98.2%
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				
AFCI	Optional				
Surge Protection	Integrated				
Over-temperature Protection	Integrated				
Residual Current Protection	Integrated				
Islanding protection	Integrated				
AC Short-circuit Protection	Integrated				
AC Over-voltage Protection	Integrated				
General Data					
Dimensions [W*H*D] (mm)	550*410*199				
Weight (kg)	27.4				
Protection Degree	IP66				
Self-consumption at Night (W)	<1				
Topology	Transformerless				
Operating Temperature Range (°C)	-30~60				
Relative Humidity (%)	0~100%				
Operating Altitude (m)	3000				
Cooling	Fan Cooling				
Noise Level (dB)	<40				
Display	OLED & LED				
Communication	RS485/WiFi/GPRS/LAN (Optional)				

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ON-GRID INVERTER



• MAX. EFFICIENCY 98.6%
• IP66 PROTECTION

STT 30~60kW
THREE PHASE | 4 MPPTS | ON-GRID

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

SAFE & RELIABLE



- High yield with Max. Efficiency 98.8%
- 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

HIGH YIELD



- 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

EASY TO USE



Model	STT-29.9KTL*	STT-30KTL	STT-33KTL	STT-36KTL	STT-40KTL	STT-45KTL	STT-50KTL-M	STT-60KTL-M
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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)	32/32/32/32	32/32/32/32	32/32/32/32	32/32/32/32	32/32/32/32	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	40/40/40/40	40/40/40/40	40/40/40/40	40/40/40/40	40/40/40/40

Output								
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
Grid Type (V)**	3 L/ N / PE, 288 / 500V							
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	47.8	52.6	57.4	63.8	71.7	79.7	95.7
Power Factor	0.8 leading...0.8 lagging							
THDi @ Rated Power	<3%							
DCI	<0.5%In							

Efficiency								
Max. Efficiency	98.8%	98.8%	98.8%	98.8%	98.8%	98.8%	98.8%	98.8%
Euro 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%

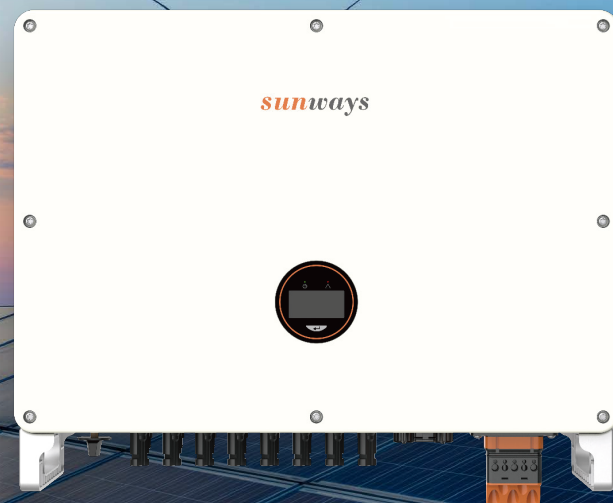
Protection								
DC Reverse Polarity Protection	Integrated							
Insulation Resistance Detection	Integrated							
DC Switch	Integrated							
AFCI	Optional							
Surge Protection	Integrated							
Over-temperature Protection	Integrated							
Residual Current Protection	Integrated							
Anti-islanding protection	Integrated							
AC Short-circuit Protection	Integrated							
AC Over-voltage Protection	Integrated							

General Data								
Dimensions [W*H*D] (mm)	600*400*270							
Weight (kg)	42							
Protection Degree	IP66							
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	Smart Fan Cooling							
Display	OLED & LED							
Communication	RS485, WiFi/ GPRS/LAN(Optional)							

* STT 29.9KTL is only available for Australia.

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ON-GRID INVERTER



- **MAX. EFFICIENCY 98.6%**
- **IP66 PROTECTION**

STT 15~37.5kW
THREE PHASE | 4 MPPTS | ON-GRID (LV)

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

SAFE & RELIABLE



- High yield with Max. Efficiency 98.8%
- European weighted efficiency 98.3%
- Up to 10% continuous output overloading capacity
- 4 MPPT design, lower PV string mismatch loss

HIGH YIELD



- String monitoring, improve O&M efficiency
- Support wireless and wired internet connection (RS485, WiFi/GPRS/LAN optional)
- Remote upgrading available

EASY TO USE



Model	STT-15KTL-LV	STT-20KTL-LV	STT-25KTL-LV	STT-30KTL-LV	STT-37.5KTL-LV
Input					
Max. Input Power (W)	24,000	32,000	40,000	48,000	60,000
Start-up Voltage (V)	180	180	180	180	180
Max. DC Input Voltage (V)	600	600	600	600	600
Rated DC Input Voltage (V)	360	360	360	360	360
MPPT Voltage Range(V)	180-550	180-550	180-550	180-550	180-550
Full power MPPT voltage range (V)	180-550	180-550	220-550	250-550	300-550
No. of MPP Trackers	4	4	4	4	4
No. of DC Inputs per MPPT	2	2	2	2	2
Max.Input Current(A)	32/32/32/32	32/32/32/32	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	40/40/40/40	40/40/40/40

Output

Rated Output Power (W)**	15,000	20,000	25,000	30,000	37,500
Max. Output Power (W)	16,500	22,000	27,500	33,000	37,500
AC Output Rated Apparent Power (VA)	15,000	20,000	25,000	30,000	37,500
Max. Apparent Power (VA)	16,500	22,000	27,500	33,000	37,500
Grid Type (V)**	3 L/N/ PE, 127/ 220V				
Rated AC Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
AC Output Rated Current (A)	40.0	52.5	65.6	78.7	98.4
Max. Output Current (A)	43.3	57.7	72.2	86.6	98.4
The measured Inrush current (A)	16.5A@10.6ms	16.5A@10.6ms	16.5A@10.6ms	16.5A@10.6ms	16.5A@10.6ms
maximum output fault current (A)	118	118	160	180	180
maximum output overcurrent protection (A)	118	118	160	180	180
Power Factor	0.8 leading...0.8 lagging				
THDi @ Rated Power	<3%				
DCI	<0.5%In				

Efficiency

Max. Efficiency	98.8%	98.8%	98.8%	98.8%	98.8%
Euro Efficiency	98.3%	98.3%	98.3%	98.3%	98.3%
MPPT Efficiency	99.9%	99.9%	99.9%	99.9%	99.9%

Protection

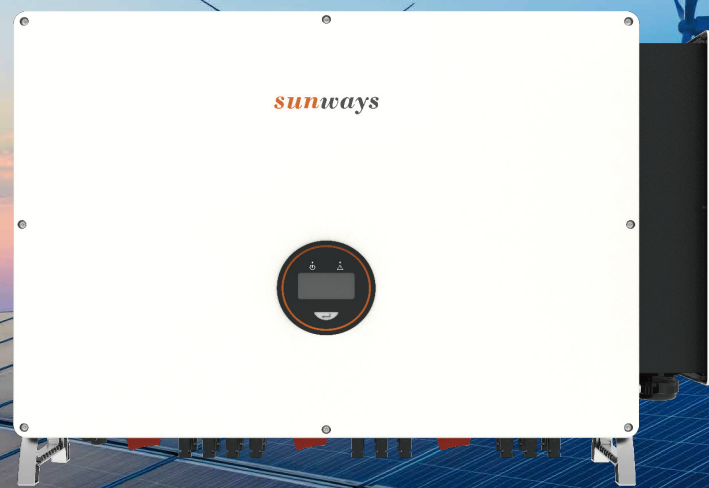
DC Reverse Polarity Protection	Integrated
Insulation Resistance Detection	Integrated
AFCI	Optional
DC Switch	Integrated
Surge Protection	Integrated
Over-temperature Protection	Integrated
Residual Current Protection	Integrated
Anti-islanding protection	Integrated
AC Short-circuit Protection	Integrated
AC Over-voltage Protection	Integrated

General Data

Dimensions [W*H*D] (mm)	600*400*270
Weight (kg)	42
Protection Degree	IP66
Self-consumption at Night (W)	<1
Topology	Transformerless
Operating Temperature Range (°C)	-30~60
Relative Humidity (%)	0~100
Operating Altitude (m)	3000
Cooling	Smart Fan Cooling
Display	OLED
Communication	RS485, WiFi/ GPRS/LAN(Optional)

** Due to differences in voltage values in various countries, minor variations may occur. The final interpretation rights belong to Sunways.

ON-GRID INVERTER



- **MAX. EFFICIENCY 98.8%**
- **IP66 PROTECTION**

STT 55~80kW

THREE PHASE | 10 MPPTS | ON-GRID (LV)

- Real-time fault curve recording, improve O&M efficiency
- IP66 intelligent fans, lower operation temperature, longer lifespan
- Intelligent quad-core processor, information processing more comprehensive, fast, and efficient

SAFE & RELIABLE



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

HIGH YIELD



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

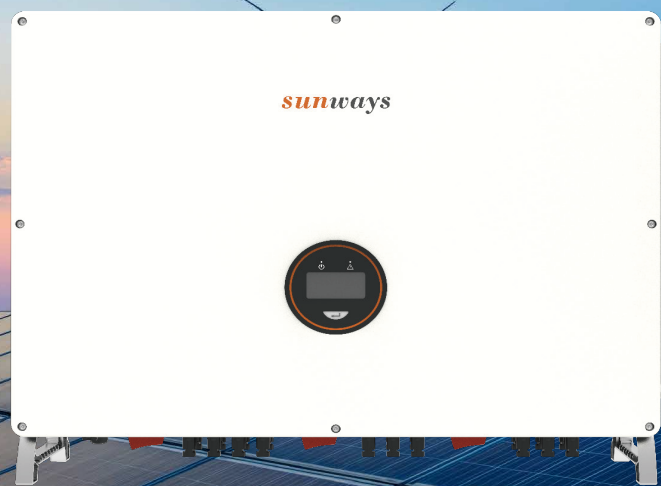
EASY TO USE



Model	STT-55KTL-SE-LV	STT-60KTL-SE-LV	STT-70KTL-SE-LV	STT-75KTL-SE-LV	STT-80KTL-SE-LV
Input					
Start-up Voltage (V)	180	180	180	180	180
Max. DC Input Voltage (V)	1100	1100	1100	1100	1100
Rated DC Input Voltage (V)	360	360	360	360	360
MPPT Voltage Range (V)	200~1000	200~1000	200~1000	200~1000	200~1000
Number of MPP Trackers	10	10	10	10	10
Number of DC Inputs per MPPT	2	2	2	2	2
Max. Input Current (A)	10*40				
Max. Short-circuit Current (A)	10*50				
Output					
Rated Output Power (W)**	55,000	60,000	70,000	75,000	80,000
Max. Output Power (W)	60,500	66,000	77,000	82,500	88,000
AC output rated apparent power(VA)	55,000	60,000	70,000	75,000	80,000
Max. Apparent Power (VA)	60,500	66,000	77,000	82,500	88,000
Grid Type (V)**	3L/N/PE, 127/220V,133/230V				
Rated AC Frequency (Hz)	50/60				
AC output rated current (A)	138.1	150.6	175.7	188.3	200.8
Max. Output Current (A)	158.8	173.2	202.1	216.5	230.9
Power Factor	0.8 leading...0.8 lagging				
THDi @ Rated Power	<3%				
DCI	< 0.5% In				
Efficiency					
Max. Efficiency	98.8%	98.8%	98.8%	98.8%	98.8%
Euro 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 Detection	Integrated				
DC Switch	Optional				
Surge Protection	Integrated (Type II)				
Over-temperature Protection	Integrated				
Residual Current Protection	Integrated				
Islanding Protection	Frequency shift, Integrated				
AC Short-circuit Protection	Integrated				
AC Over-voltage Protection	Integrated				
AFCI	Optional				
General Data					
Dimensions [W*H*D] (mm)	1025*640*320				
Weight (kg)	92				
Protection Degree	IP66				
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	Smart Fan Cooling				
Display	OLED & LED				
Communication	RS485, WiFi/GPRS/LAN (Optional)				

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ON-GRID INVERTER



- **MAX. EFFICIENCY 98.8%**
- **IP66 PROTECTION**

STT 100~150kW
THREE PHASE | 10 MPPTS | ON-GRID

- Real-time fault curve recording, improve O&M efficiency
- IP66 intelligent fans, lower operation temperature, longer lifespan
- Intelligent quad-core processor, information processing more comprehensive, fast, and efficient

INTELLIGENT



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

HIGH YIELD



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

CONVENIENCE



Model	STT-100KTL-SE	STT-110KTL-SE	STT-125KTL-SE	STT-136KTL-SE	STT-150KTL-SE
Input					
Max. Input Power (W)	160000	176000	200000	217600	240000
Start-up Voltage (V)	200	200	200	200	200
Max. DC Input Voltage (V)	1100	1100	1100	1100	1100
Rated DC Input Voltage (V)	620	620	620	620	620
MPPT Voltage Range (V)	200-1000	200-1000	200-1000	200-1000	200-1000
Number of MPP Trackers	10	10	10	10	10
Number of DC Inputs per MPPT	2	2	2	2	2
Max. Input Current (A)	10*40	10*40	10*40	10*40	10*40
Max. Short-circuit Current (A)	10*50	10*50	10*50	10*50	10*50

Output

Rated Output Power (W)**	100,000	110,000	125,000	136,000	150,000
Max. Output Power (W)	110,000	121,000	136,000	149,600	165,000
AC output rated apparent power (VA)	100,000	110,000	125,000	136,000	150,000
Max. Apparent Power (VA)	110,000	121,000	136,000	149,600	165,000
Grid Type**	3 L/ N / PE, 288 / 500V				
Rated AC Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
AC output rated current (A)	151.5	166.7	189.4	197	227.3
Max. Output Current (A)	166.7	183.3	206.1	226.7	250
Power Factor	0.8 leading ...0.8 lagging				
THDi @ Rated Power	<3%				
DCI	<0.5%In				

Efficiency

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

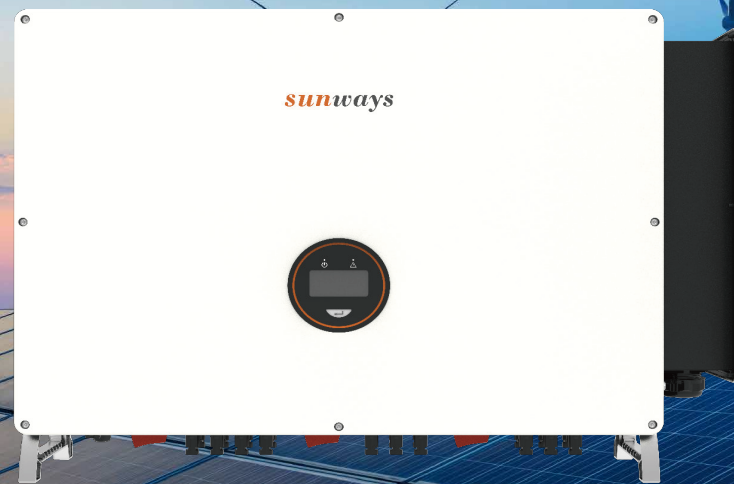
DC Reverse Polarity Protection	Integrated
Insulation Resistance Protection	Integrated
DC Switch	Optional
Surge Protection	Integrated (Type II)
Over-temperature Protection	Integrated
Residual Current Protection	Integrated
Islanding protection	Frequency shift, Integrated
AC Short-circuit Protection	Integrated
AC Over-voltage Protection	Integrated
Intelligent string shutdown	Optional
AFCI	Optional

General Data

Dimensions [W*H*D] (mm)	1025 * 640 * 320
Weight (kg)	92
Protection Degree	IP66
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	Smart Fan Cooling
Display	OLED & LED
Communication	RS485/WiFi/GPRS/LAN (Optional)

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ON-GRID INVERTER



- **MAX. EFFICIENCY 98.8%**
- **IP66 PROTECTION**

STT 130~170kW
THREE PHASE | 10 MPPTS | ON-GRID

- Real-time fault curve recording, improve O&M efficiency
- IP66 intelligent fans, lower operation temperature, longer lifespan
- Intelligent quad-core processor, information processing more comprehensive, fast, and efficient

INTELLIGENT



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

HIGH YIELD



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

CONVENIENCE



Model	STT-130KTL-SE-HV	STT-145KTL-SE-HV	STT-165KTL-SE-HV	STT-170KTL-SE-HV
Input				
Start-up Voltage (V)	180	180	180	180
Max. DC Input Voltage (V)	1100	1100	1100	1100
Rated DC Input Voltage (V)	750	750	750	750
MPPT Voltage Range (V)	200-1000	200-1000	200-1000	200-1000
Number of MPP Trackers	10	10	10	10
Number of DC Inputs per MPPT	2	2	2	2
Max. Input Current (A)	10*40	10*40	10*40	10*40
Max. Short-circuit Current (A)	10*50	10*50	10*50	10*50
Output				
Rated Output Power (W)**	130,000	145,000	165,000	170,000
Max. Output Power (W)	143,000	159,500	181,500	187,000
AC output rated apparent power (VA)	130,000	145,000	165,000	170,000
Max. Apparent Power (VA)	143,000	159,500	181,500	187,000
Grid Type (V)**	3L/N/PE, 288/500V			
Rated AC Frequency (Hz)	50/60	50/60	50/60	50/60
AC output rated current (A)	150.1	167.4	190.5	196.3
Max. Output Current (A)	165.1	184.2	209.6	230.9
Power Factor	0.8 leading ..0.8 lagging			
THDi @ Rated Power	<3%@Rated Output Power			
DCI	<0.5%In			
Efficiency				
Max. Efficiency	98.8%	98.8%	98.8%	98.8%
European Efficiency	98.3%	98.3%	98.3%	98.3%
MPPT Efficiency	99.9%	99.9%	99.9%	99.9%
Protection				
DC Reverse Polarity Protection	Integrated			
Insulation Resistance Protection	Integrated			
DC Switch	Optional			
Surge Protection	Integrated (Type II)			
Over-temperature Protection	Integrated			
Residual Current Protection	Integrated			
Islanding protection	Frequency shift, Integrated			
AC Short-circuit Protection	Integrated			
AC Over-voltage Protection	Integrated			
Intelligent string shutdown	Optional			
AFCI	Optional			
General Data				
Dimensions [W*H*D] (mm)	1025*640*320			
Weight (KG)	92			
Protection Degree	IP66			
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	Smart Fan Cooling			
Display	OLED & LED			
Communication	RS485/Wifi/GPRS/LAN (Optional)			

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