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SOLAR INVERTER AND MORE 2026 All-in-One Datasheet

German Heritage Since **1993**

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ON-GRID INVERTER



- MAX. EFFICIENCY 97.5%
- IP65 PROTECTION

STS 1~3.3kW
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 97.5%
- European weighted efficiency 97%
- 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-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-P*
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	16	16	16	16	16
Max. Short-circuit Current (A)	20	20	20	20	20	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
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					

Efficiency

Max. Efficiency	97.3%	97.3%	97.5%	97.5%	97.5%	97.5%
Euro 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

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	IP65
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	Natural Convection
Noise Level (dB)	< 25
Display	OLED & LED
Communication	RS485/WiFi/GPRS/LAN (Optional)

* STS 3.3KTL-S-P is only available for India.

** 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 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)

* 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 98.1%
- IP66 PROTECTION
- AFCI OPTION, SAFETY UP

STS 3~6kW

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 97.6%
- Wide MPPT voltage range
- Up to 10% continuous output overloading capacity
- 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-3KTL-SE	STS-3.6KTL-SE	STS-4KTL-SE	STS-4.6KTL-SE	STS-5KTL-SE	STS-6KTL-SE
Input						
Max. Input Power (W)	4800	5760	6400	7360	8000	9600
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
No. of MPP Trackers	2	2	2	2	2	2
No. of DC Inputs per MPPT	1/1	1/1	1/1	1/1	1/1	1/1
Max. Input Current (A)	20/20	20/20	20/20	20/20	20/20	20/20
Max. Short-circuit Current (A)	25/25	25/25	25/25	25/25	25/25	25/25

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					

Efficiency

Max. Efficiency	98.1%	98.1%	98.1%	98.1%	98.1%	98.1%
Euro Efficiency	97.3%	97.3%	97.3%	97.3%	97.5%	97.6%
MPPT Efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%

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

General Data

Dimensions [W*H*D] (mm)	410*360*120	
Weight (kg)	11.5	
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 (derating > 2000)	
Cooling	Natural Convection	Smart Fan Cooling
Noise Level (dB)	<25	<40
Display	OLED(Optional)	
Communication	RS485/WiFi/GPRS/LAN (Optional)	

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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

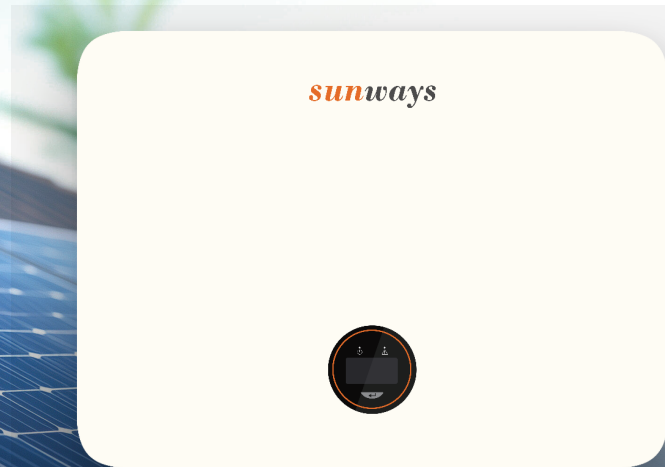
EASY TO USE



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.

ON-GRID INVERTER



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

STS 7~11kW
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 97.6%
- Wide MPPT voltage range
- Up to 10% continuous output overloading capacity
- With a max input current of 15A, 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	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
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				

Efficiency

Max. Efficiency	98.1%	98.1%	98.1%	98.1%	98.1%
Euro Efficiency	97.6%	97.6%	97.6%	97.6%	97.6%
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
Over-temperature Protection	Integrated
Residual Current Protection	Integrated
Anti-islanding Protection	Integrated
AC Short-circuit Protection	Integrated
AC Over-voltage Protection	Integrated

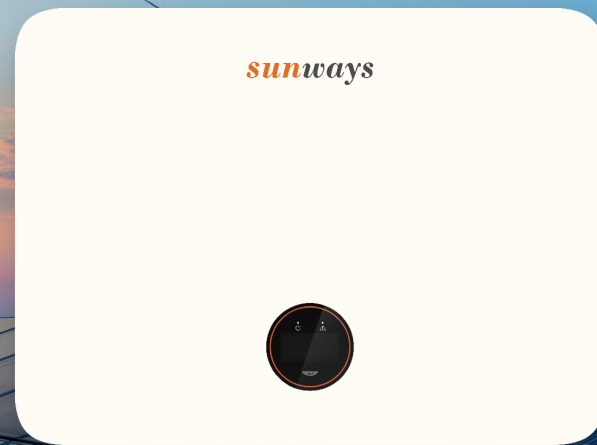
General Data

Dimensions [W*H*D] (mm)	550*410*175	
Weight (kg)	24	26
Protection Degree	IP65	
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	Natural Convection	Smart Fan Cooling
Noise Level (dB)	< 25	< 40
Display	OLED & LED	
Communication	RS485/WiFi/GPRS/LAN (Optional)	

* STS 11KTL is only available for Brazil.

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ON-GRID INVERTER



- **MAX. EFFICIENCY 98.6%**
- **IP65 PROTECTION**

STT 4~25kW

THREE 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 98.6%
- 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

HIGH YIELD



- 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-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-25KTL-P
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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	160-1000
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	15/15	15/15	15/15	15/15	15/15	15/30	30/30	30/30	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
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									

Efficiency

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Protection

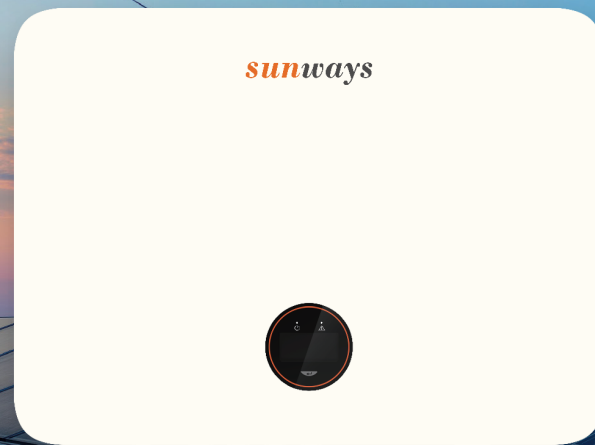
DC Reverse Polarity Protection	Integrated
Insulation Resistance Detection	Integrated
DC Switch	Optional
Surge Protection	Integrated
Over-temperature Protection	Integrated
Residual Current Protection	Integrated
Anti-islanding protection	Integrated
AC Short-circuit Protection	Integrated
AC Over-voltage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

General Data

Dimensions [W*H*D] (mm)	550*410*175		
Weight (kg)	23	26	29
Protection Degree	IP65		
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	Natural Convection		Smart Fan Cooling
Noise Level (dB)	< 25		< 40
Display	OLED & LED		
Communication	RS485, WiFi/GPRS/LAN (Optional)		

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ON-GRID INVERTER



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

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

- Integrated surge protection for both DC and AC
- IP65 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

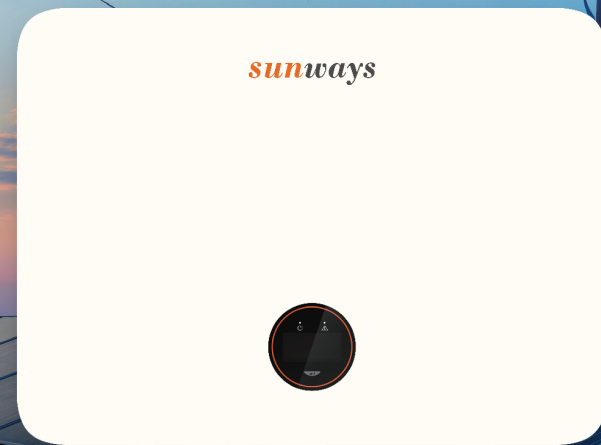
EASY TO USE



Model	STT-10KTL-SE-LV	STT-15KTL-SE-LV	STT-20KTL-SE-LV
Input			
Start-up Voltage (V)	180	180	180
Max. DC Input Voltage (V)	750	750	750
Rated DC Input Voltage (V)	360	360	360
MPPT Voltage Range (V)	200~650	200~650	200~650
No. of MPP Trackers	2	2	2
No. of DC Inputs per MPPT	2	2	2
Max. Input Current (A)	40/40	40/40	40/40
Max. Short-circuit Current (A)	50/50	50/50	50/50
Output			
Rated Output Power (W)	10000	15000	20,000
Max. Output Power (W)	11000	16500	22,000
AC output rated apparent power (VA)	10000	15000	20,000
Max. Apparent Power (VA)	11000	16500	22,000
Rated Output Voltage (V)	3 / N / PE, 127 / 220V		
Rated AC Frequency (Hz)	50/60	50/60	50/60
AC output rated current (A)	26.2	39.4	52.5
Max. Output Current (A)	28.9	43.3	57.8
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%
Euro Efficiency	98.2%	98.2%	98.2%
MPPT Efficiency	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	Natural Convection		
Noise Level (dB)	<25		
Display	OLED & LED		
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 98.6%**
- **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

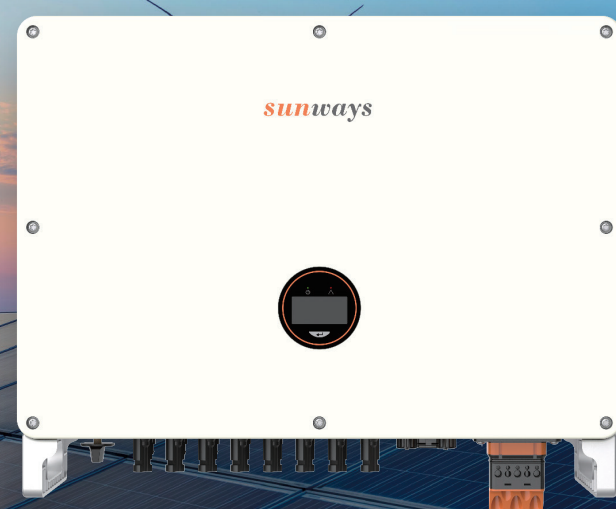
EASY TO USE



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

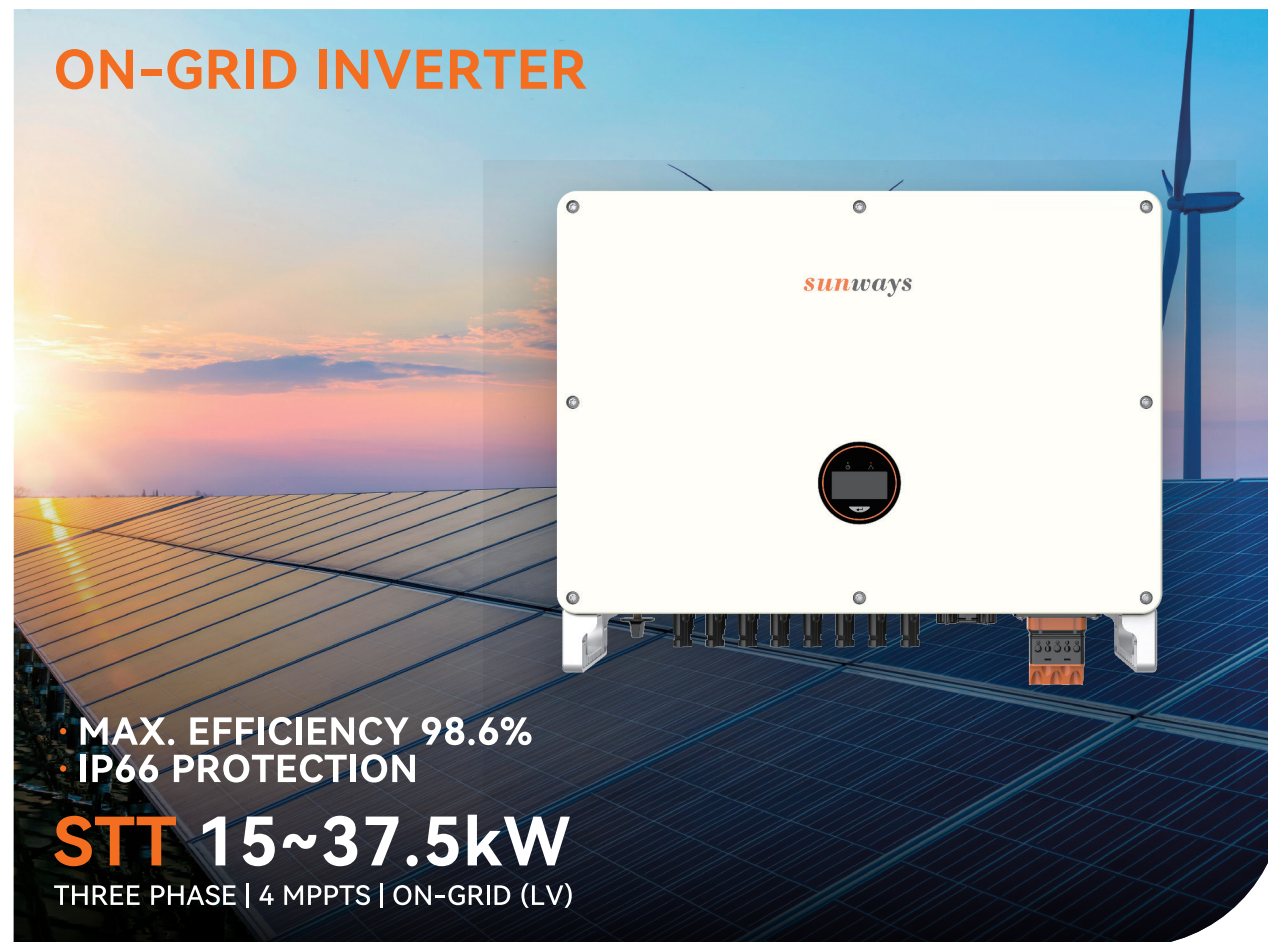


Model	STT-29.9KTL*	STT-30KTL	STT-33KTL	STT-36KTL	STT-40KTL	STT-45KTL	STT-50KTL-M	STT-60KTL-M
Input								
Max. Input Power (W)	47,840	48,000	52,800	57,600	64,000	72,000	80,000	96,000
Start-up Voltage (V)	180	180	180	180	180	180	180	180
Max. DC Input Voltage (V)	1,100	1,100	1,100	1,100	1,100	1,100	1,100	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



- 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)

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ON-GRID INVERTER



- 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

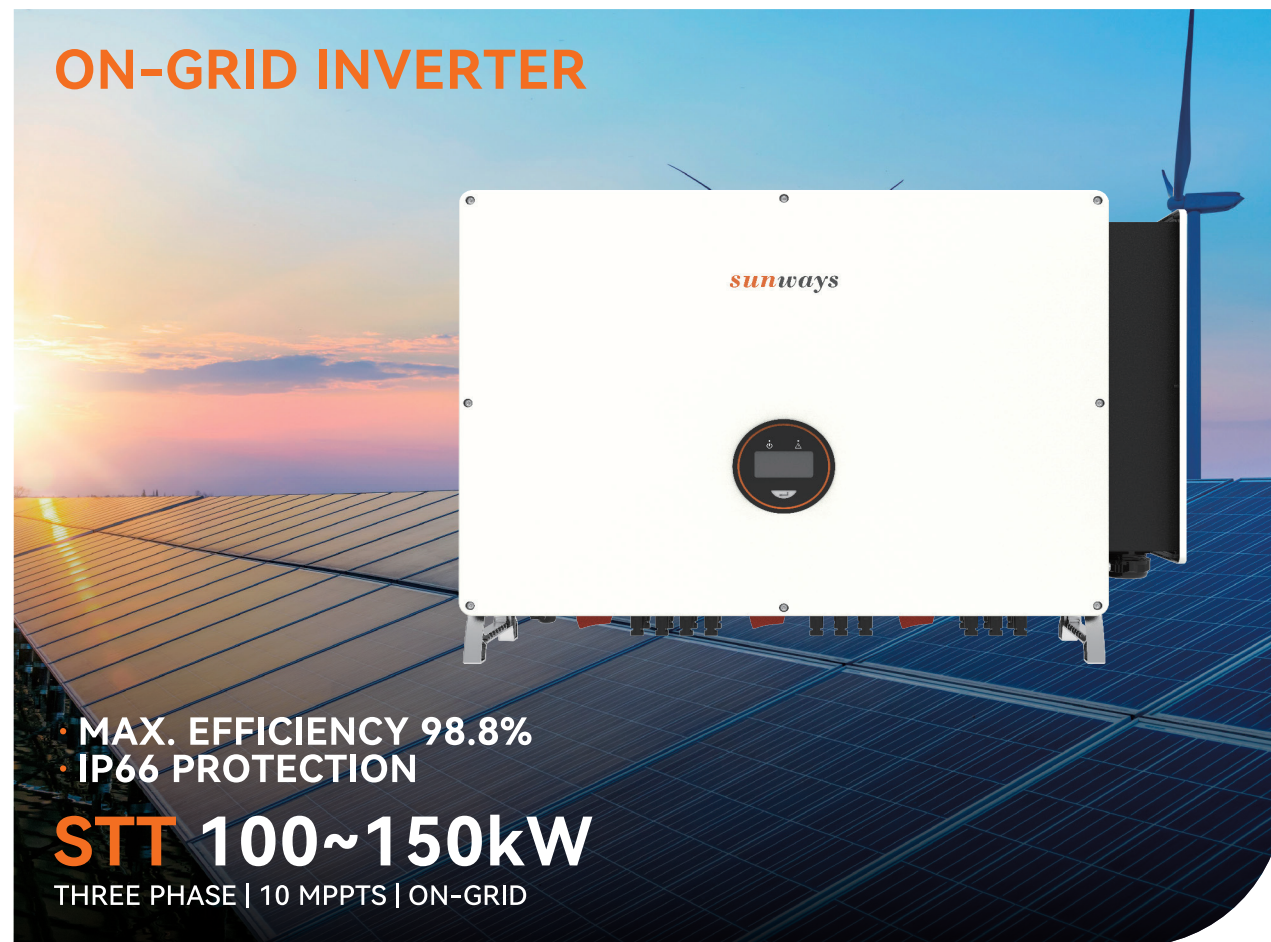
EASY TO USE



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



- 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



- 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)			

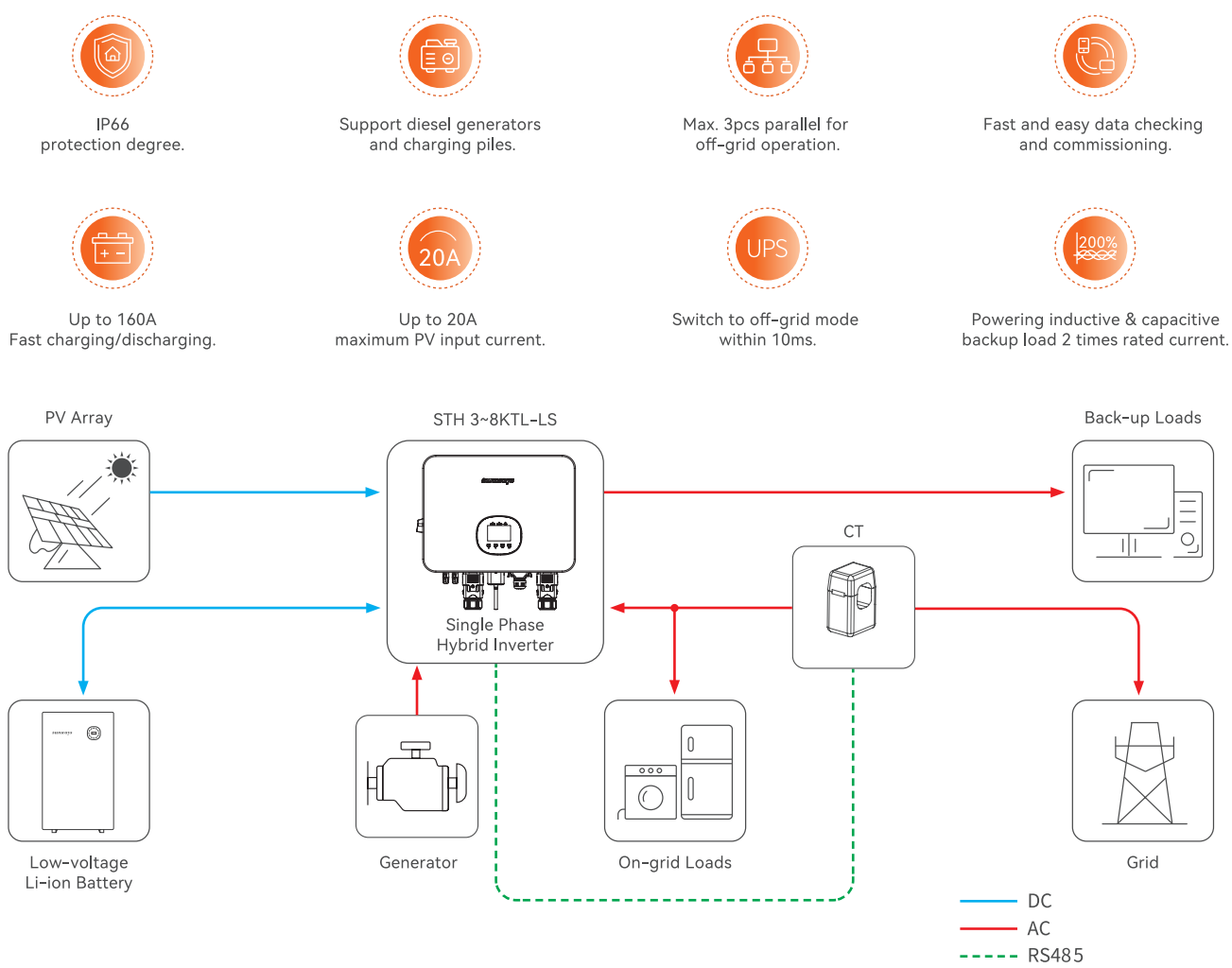
** Due to differences in voltage values in various countries, minor variations may occur. The final interpretation rights belong to Sunways.

HYBRID INVERTER (LV)

- MAX. EFFICIENCY 97.6%
- IP66 PROTECTION

STH 3~8kW

SINGLE PHASE | 1/2 MPPTS | HYBRID INVERTER (LV)



Model	STH-3KTL-LSS	STH-3.6KTL-LSS	STH-4KTL-LS	STH-4.6KTL-LS	STH-5KTL-LS	STH-6KTL-LS	STH-7.5KTL-LS	STH-8KTL-LS
PV Input								
Start-up Voltage (V)	58	58	58	58	58	58	58	58
Max. input power (W)	6,000	7,200	8,000	9,200	10,000	12,000	12,000	12,000
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
MPPT Voltage Range (V)	80-550	80-550	80-550	80-550	80-550	80-550	80-550	80-550
No. of MPP Trackers	1	1	2	2	2	2	2	2
No. of DC Inputs per MPPT	1	1	1/1	1/1	1/1	1/1	1/1	1/1
Max. Input Current (A)	20	20	20/20	20/20	20/20	20/20	20/20	20/20
Max. Short-circuit Current (A)	25	25	25/25	25/25	25/25	25/25	25/25	25/25
Battery								
Battery Type	Lithium battery (with BMS)/Lead Acid							
Battery Communication Mode	CAN							
Battery Voltage Range (V)	40-60	40-60	40-60	40-60	40-60	40-60	40-60	40-60
Max. Charge/Discharge Current (A)	80/80	80/80	100/100	100/100	120/120	120/120	160/160	160/160
Output (Grid)								
Rated Output Power (W)**	3,000	3,680	4,000	4,600	5,000	6,000	7,500	8,000
Max. Output Power (W)	3,300	3,680	4,400	5,060	5,500	6,600	8,250	8,800
AC Output Rated Apparent Power (VA)	3,000	3,680	4,000	4,600	5,000	6,000	7,500	8,000
Max. Apparent Power (VA)	3,300	3,680	4,400	5,060	5,500	6,600	8,250	8,800
Rated Output Voltage (V)**	L/N/PE, 220/230							
Rated AC Frequency (Hz)	50/60							
AC Output Rated Current (A)	13	16	17.4	20	21.7	26.1	32.6	34.8
Max. Output Current (A)	15	16	20	23	25	30	37.5	40
The measured Inrush current (A)	8.8A@28μs							
Max. Output Fault Current (A)	50	50	50	50	80	80	80	80
Max. Output Overcurrent Protection (A)	50	50	50	50	80	80	80	80
Power Factor	0.8 leading ...0.8 lagging							
Max. Total Harmonic Distortion	<3% @Rated Output Power							
DCI	<0.5%In							
Output (Back-up)								
Rated Output Power (W)	3,000	3,680	4,000	4,600	5,000	6,000	7,500	8,000
Max. Output Power (W)	3,300	3,680	4,400	5,060	5,500	6,600	8,250	8,800
Back-up Output Rated Apparent Power (VA)	3,000	3,680	4,000	4,600	5,000	6,000	7,500	8,000
Max. Apparent Power (VA)	3,300	3,680	4,400	5,060	5,500	6,600	8,250	8,800
Back-up Output Rated Current (A)	13	16	17.4	20	21.7	26.1	32.6	34.8
Max. Output Current (A)	15	16	20	23	25	30	37.5	40
UPS Switching Time	<10ms							
Rated Output Voltage (V)	L/N/PE, 220/230							
Rated AC Frequency (Hz)	50/60							
Peak Output Apparent Power (VA)	6,000 [Ⓢ] , 10s	7,200 [Ⓢ] , 10s	8,000 [Ⓢ] , 10s	10,000 [Ⓢ] , 10s	10,000 [Ⓢ] , 10s	12,000 [Ⓢ] , 10s	12,000 [Ⓢ] , 10s	12,000 [Ⓢ] , 10s
Load Capacity of Motors	/	/	/	/	4HP	4HP	4HP	4HP
Efficiency								
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%
Protection								
DC Reverse Polarity Protection	Integrated							
Insulation Resistance Protection	Integrated							
DC Switch	Integrated							
AFCI	Optional							
Surge Protection	Integrated							
Over-temperature Protection	Integrated							
Residual Current Protection	Integrated							
Islanding Protection	Integrated							
AC Over-voltage Protection	Integrated							
Overload Protection	Integrated							
AC Short-circuit Protection	Integrated							
General Data								
Over Voltage Category	DC : II; AC :II							
Dimensions (mm)	488*374*205							
Weight (KG)	20 / 21							
Protection Degree	IP66							
Self-consumption at Night (W)	< 15							
Topology	Transformerless							
Operating Temperature Range (°C)	-25~60							
Relative Humidity (%)	0~100							
Operating Altitude (m)	3000							
Cooling	Natural Convection / Fan							
Noise Level (dB)	<40 / <50							
Display	LCD/ OLED							
Communication	WiFi/Bluetooth							

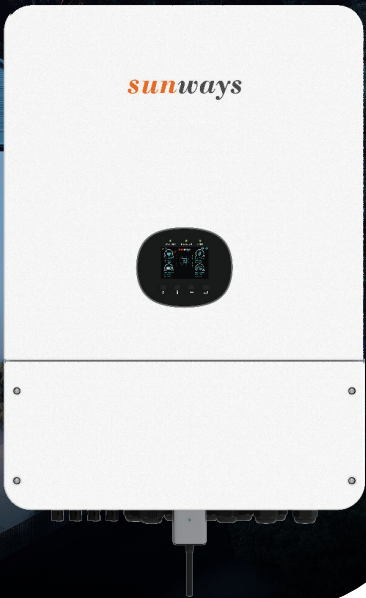
** Due to differences in voltage values in various countries, minor variations may occur. The final interpretation rights belong to Sunways.

HYBRID INVERTER (LV)

- MAX. EFFICIENCY 97.6%
- IP66 PROTECTION

STH 5~20kW

THREE PHASE | 4 MPPTS | HYBRID INVERTER (LV)



- 

IP66 protection degree.



Support diesel generators and charging piles.



Max. 3pcs parallel for off-grid operation.



Fast and easy data checking and commissioning.
- 

Up to 430A Continuous charging/discharging.



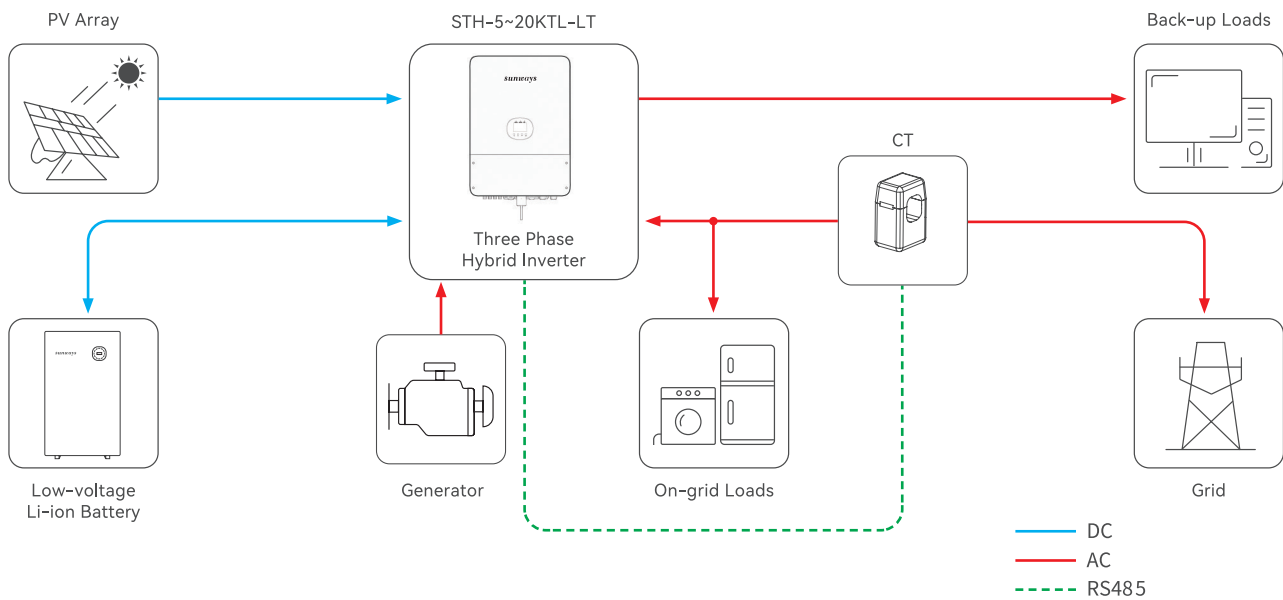
Up to 20A maximum PV input current.



Switch to off-grid mode within 10ms.



Powering inductive & capacitive backup load 2 times rated current.



Model	STH-5KTL-LT	STH-6KTL-LT	STH-8KTL-LT	STH-10KTL-LT	STH-12KTL-LT	STH-15KTL-LT	STH-20KTL-LT
PV Input							
Max. Input Power (W)	10,000	12,000	16,000	20,000	24,000	30,000	40,000
Starting Voltage (V)	130	130	130	130	130	130	130
Max. DC Input Voltage (V)	1000	1000	1000	1000	1000	1000	1000
Rated DC Input Voltage (V)	600	600	600	600	600	600	600
MPPT Voltage Range (V)	160-850	160-850	160-850	160-850	160-850	160-850	160-850
No. of MPP Trackers	2	2	3	3	4	4	4
No. of DC Inputs per MPPT	1/1	1/1	1/1/1	1/1/1	1/1/1/1	1/1/1/1	1/1/1/1
Max. Input Current (A)	20/20	20/20	20/20/20	20/20/20	20/20/20/20	20/20/20/20	20/20/20/20
Max. Short-circuit Current (A)	30/30	30/30	30/30/30	30/30/30	30/30/30/30	30/30/30/30	30/30/30/30

Battery							
Battery Type	Lithium battery / Lead-acid battery						
Battery Communication Mode	CAN						
Number of Battery Inputs	1	1	1	1	2	2	2
Battery Voltage Range (V)	40-60	40-60	40-60	40-60	40-60	40-60	40-60
Max. Charge/Discharge Current (A)	120	140	180	215	140/140	160/160	215/215

Output (Grid)							
Rated Output Power (W)**	5,000	6,000	8,000	10,000	12,000	15,000	20,000
Max. Output Apparent Power (VA)	5,500	6,600	8,800	11,000	13,200	165,00	22,000
Max. Input Apparent Power (VA)	7,500	9,000	12,000	15,000	18,000	22,500	30,000
Rated Output Voltage (V)**	3L/N/PE, 380/400						
Rated AC Frequency (Hz)	50/60						
Max. Output Current (A)	8.3	10	13.4	16.7	20	25	33.4
Power Factor	> 0.99 (0.8 leading ...0.8 lagging)						
Max. Total Harmonic Distortion	<3% @Rated Output Power						

Output (Back-up)							
Rated Output Power (W)	5,000	6,000	8,000	10,000	12,000	15,000	20,000
Max. Output Apparent Power (VA)	5,500	6,600	8,800	11,000	13,200	165,00	22,000
Max. Output Current (A)	8.3	10	13.4	16.7	20	25	33.4
Max Bypass Current(Grid to Backup Load) (A)	11.4	13.6	18.2	22.7	27.3	34	45
UPS Switching Time	<10ms						
Rated Output Voltage (V)	3L/N/PE, 380/400						
Rated AC Frequency (Hz)	50/60						
Peak Output Apparent Power (VA)	10,000 ^① , 10s	12,000 ^① , 10s	16,000 ^① , 10s	20,000 ^① , 10s	24,000 ^① , 10s	30,000 ^① , 10s	40,000 ^① , 10s

Efficiency							
Max. Efficiency	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%
Max. Charging and Discharging Efficiency	95%	95%	95%	95%	95%	95%	95%

Protection	
PV Reverse Polarity Protection	Integrated
Insulation Resistance Protection	Integrated
DC Switch	Integrated
AFCl	Optional
Surge Protection	Integrated
Over-temperature Protection	Integrated
Residual Current Protection	Integrated
Islanding Protection	Integrated
AC Over-voltage Protection	Integrated
Overload Protection	Integrated
AC Short-circuit Protection	Integrated

General Data	
Over Voltage Category	DC : II; AC :III
Dimensions (mm)	782*572*219
Weight (KG)	38
Protection Degree	IP66
Topology(Solar/Battery)	Transformerless / High-frequency isolation
Operating Temperature Range (°C)	-25~60 (> 45°C derating)
Relative Humidity (%)	0~100
Operating Altitude (m)	3000
Cooling	Intelligent Air Cooling
Noise Level (dB)	<50
Display	LCD
Communication	RS485/LAN/Bluetooth/WiFi,4G(Optional)

①The 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.

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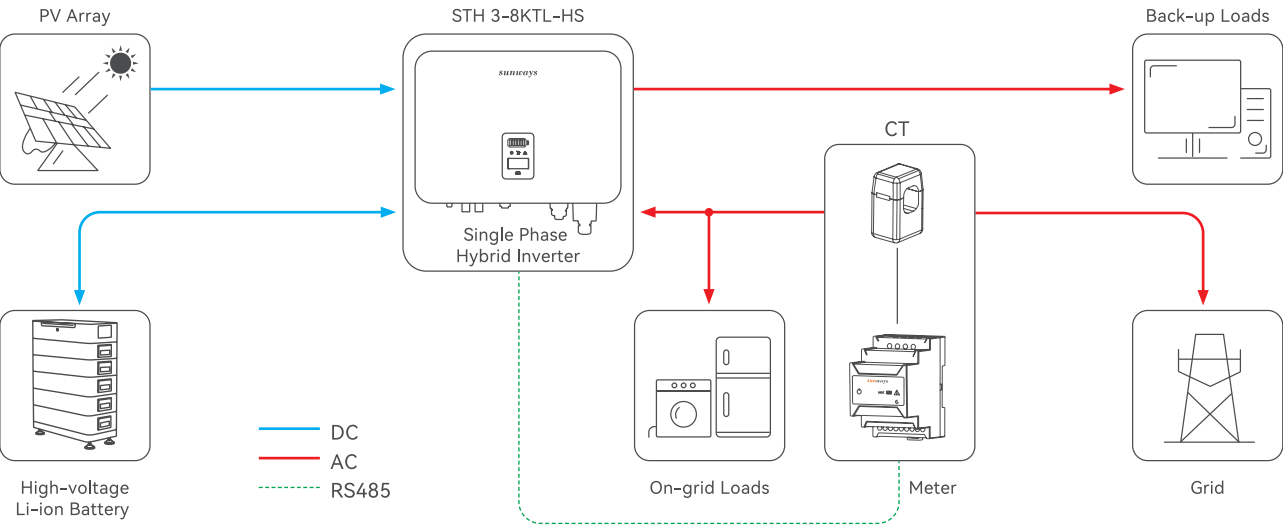
HYBRID INVERTER (HV)

- MAX. EFFICIENCY 97.6%
- IP65 PROTECTION

STH 3~8kW

SINGLE PHASE | 2 MPPTS | HYBRID INVERTER (HV)

- Max. Efficiency up to 97.6%.
- With AC output ranging from 3kW to 8kW.
- Powerful load adaptability, support loads stable access.
- Fast and easy data checking and commissioning via App or OLED display.
- Wide battery voltage range allows more battery modules connection and increases self consumption rate.
- Fast charging/discharging of up to 30A to meet the demand of higher consumption and energy trading.
- Up to 15A maximum PV input current allows most higher current PV panels connection and lowers the system LCOE.
- Uninterruptible power supply, switch to off-grid mode within 10ms.



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-8KTL-HS
PV Input								
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
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 Communication Mode	CAN / RS485
Battery Voltage Range (V)	85~500
Max. Charge/Discharge Current (A)	30/30
Rated Current of Built-in Fuse (A)	63

Output (Grid)								
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. 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 ^①	7,200 ^①	8,400 ^①	9,200 ^①	10,000 ^①	12,000 ^①	12,000 ^①	12,000 ^①
Max. Charging Power of Battery (W)	3,000	3,600	4,200	4,600	5,000	6,000	7,000	8,000
Grid Type (V)**	L/N/PE, 220/230/240V							
Rated AC Frequency (Hz)	50/60							
Max. Output Current (A)	15	18	21	21	25/21.7	28.7	35	36.3
Power Factor	0.8 leading...0.8 lagging							
THDi @ Rated Power	<3%							
DCI	<0.5%In							

Output (Back-up)								
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 (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
Back-up Output Rated Current (A)	13	15.7	18.3	20	21.7	26.1	31.8	36.3
Max. Output Current (A)	15	18	21	21	25/21.7	28.7	35	36.3
UPS Switching Time (ms)	<10							
Grid Type (V)	L/N/PE, 220/230/240							
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 ^② , 60s	6,000 ^② , 60s	6,500 ^② , 60s	7,800 ^② , 60s	9,100 ^② , 60s	10,000 ^② , 60s
THDi @ Rated Power	<3%							

Efficiency								
Max. Efficiency	97.6%	97.6%	97.6%	97.6%	97.6%	97.6%	97.6%	97.6%
Euro Efficiency	97.0%	97.0%	97.0%	97.0%	97.0%	97.0%	97.0%	97.0%
Max. Battery Charging Conversion Efficiency	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%

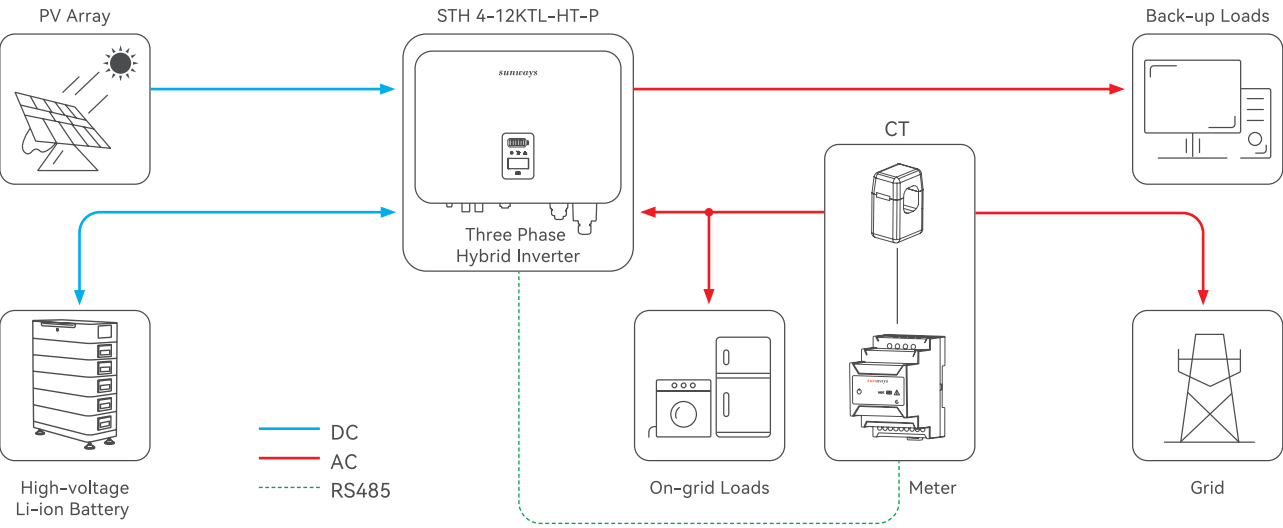
Protection	
DC Reverse Polarity Protection	Integrated
Battery Input Reverse Connection Protection	Integrated
Insulation Resistance Detection	Integrated
DC Switch	Optional
Surge Protection	Integrated
Over-temperature Protection	Integrated
Residual Current Protection	Integrated
Anti-islanding Protection	Integrated
AC Over-voltage Protection	Integrated
Overload Protection	Integrated
AC Short-circuit Protection	Integrated

General Data	
Over Voltage Category	PV : II; Main : III
Dimensions [W*H*D] (mm)	550*410*175
Weight (kg)	26
Protection Degree	IP65
Self-consumption at Night (W)	< 15
Topology	Transformerless
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	WiFi / LAN (Optional)

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



- Max. Efficiency up to 98.2%.
- Up to 110% phase unbalanced output available on both on-grid and back-up outputs.
- Powerful load adaptability, support loads stable access.
- Oled display+App, two ways for data checking and management.
- 140~750V wide battery connection range to store more energy and optimize self-sufficiency rate.
- Arbitrary phase of back-up output allows up to 125% overloading ability.
- Maximum 200% back-up output overloading @60s.
- Uninterruptible power supply, switch to off-grid mode within 10ms.



Model	STH-4KTL-HT-P	STH-5KTL-HT-P	STH-6KTL-HT-P	STH-8KTL-HT-P	STH-10KTL-HT-P	STH-12KTL-HT-P
PV Input						
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
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 ^①	16/16 ^①	16/16 ^①	16/16 ^①	16/16 ^①
Max. Short-circuit Current (A)	18/18	18/18	18/18	18/18	18/18	18/18

Battery	
Battery Communication Mode	CAN / RS485
Battery Voltage Range (V)	140~750
Max. Charge/Discharge Current (A)	25/25
Rated Current of Built-in Fuse (A)	63

Output (Grid)						
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 ^②	16,500 ^②	16,500 ^②
Max. Charging Power of Battery (W)	4,000	5,000	6,000	8,000	10,000	12,000
Grid Type**	3L/N/PE, 230/400V					
Rated AC Frequency (Hz)	50/60 45-55/55-65					
Max. Output Current (A)	6.7	8.3	10	13.3	16.5	20
Power Factor	0.8 leading...0.8 lagging					
THDi @ Rated Power	<3%					
DCI	< 0.5%In					

Output (Back-up)						
UPS Switching Time (ms)	< 10					
Grid Type	3L/N/PE, 230/400V					
Rated AC Frequency (Hz)	50/60 45-55/55-65					
Max. Apparent Power (VA)	4,400	5,500	6,600	8,800	11,000	13,200
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 , 60s
Peak Output Apparent Power/per Phase (VA)	1,600 ^③	2,100 ^③	2,600 ^③	3,300 ^③	4,000 ^③	5,000 ^③
THDi @ Rated Power	< 3%					

Efficiency						
Max. Efficiency	98.1%	98.1%	98.1%	98.2%	98.2%	98.2%
Euro Efficiency	97.3%	97.3%	97.3%	97.4%	97.4%	97.4%
Max. Battery Charging Conversion Efficiency	97.2%	97.2%	97.2%	97.3%	97.3%	97.3%
Max. Battery Discharge Conversion Efficiency	97.2%	97.2%	97.2%	97.3%	97.3%	97.3%

Protection	
DC Reverse Polarity Protection	Integrated
Battery Input Reverse Connection 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 Over-voltage Protection	Integrated
Overload Protection	Integrated
AC Short-circuit Protection	Integrated

General Data	
Dimensions [W*H*D] (mm)	550*410*175
Weight (kg)	26~28
Protection Degree	IP65
Self-consumption at Night (W)	< 15
Topology	Transformerless
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	WiFi / LAN (Optional)

① STH-4K~12KTL-HT series maximum input current per string is 16A, 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.
④ Only one of the three phases can reach up to 1.25 times, and the other two phases should be less than 1.1.
** Due to differences in voltage values in various countries, minor variations may occur. The final interpretation rights belong to Sunways.

- **MAX. EFFICIENCY 98.2%**
- **IP66 PROTECTION**

STH 15~33kW

THREE PHASE | 2 MPPTS | HYBRID INVERTER (HV)



Model	STH-15KTL-HT	STH-17KTL-HT	STH-20KTL-HT	STH-25KTL-HT	STH-29.9KTL-HT	STH-30KTL-HT	STH-33KTL-HT
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Max. Input Power (W)	22,500	25,500	30,000	37,500	44,850	45,000	49,500
Start-up Voltage (V)	190	190	190	190	190	190	190
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
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)	40/40	40/40	40/40	40/40	40/40	40/40	40/40
Max. Short-circuit Current (A)	50/50	50/50	50/50	50/50	50/50	50/50	50/50

Battery Communication Mode	CAN / RS485
Battery Voltage Range (V)	200~800
Max. Charge/Discharge Current (A)	80/80
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. Input Apparent Power (VA)	22,500 ^①	25,500 ^①	30,000 ^①	37,500 ^①	44,850 ^①	44,850 ^①	44,850 ^①
Grid Type**	3L / N / PE, 230 (400)						
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	0.8 leading...0.8 lagging						
THDi @ Rated Power	<3%						
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 Power (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
Back-up 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
UPS switching time (ms)	<10						
Grid Type	3L/N/PE, 230 (400)						
Rated AC Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60
THDi @ Rated Power	<3%						

Max. Efficiency	98.1%	98.1%	98.1%	98.2%	98.2%	98.2%	98.2%
Euro Efficiency	97.3%	97.3%	97.3%	97.4%	97.4%	97.4%	97.4%
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%

DC Reverse Polarity Protection	Integrated
Battery input reverse connection 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 Over-voltage Protection	Integrated
Overload protection	Integrated
AC Short-circuit Protection	Integrated

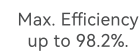
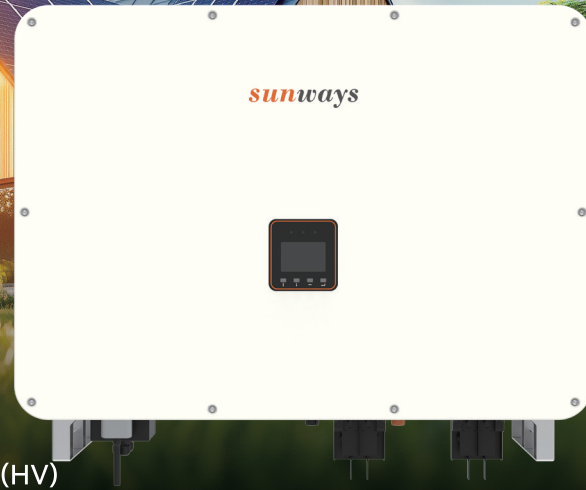
Over Voltage Category	PV: II, Main: III
Dimensions [W*H*D] (mm)	640*490*290
Weight (kg)	48
Protection Degree	IP66
Self-consumption at Night (W)	<15
Topology	Transformerless
Operating Temperature Range (°C)	-30~60
Relative Humidity (%)	0~100
Operating Altitude (m)	3000
Cooling	Smart Fan Cooling
Noise Level (dB)	<50
Display	OLED & LED
Communication	WiFi/LAN (Optional)

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

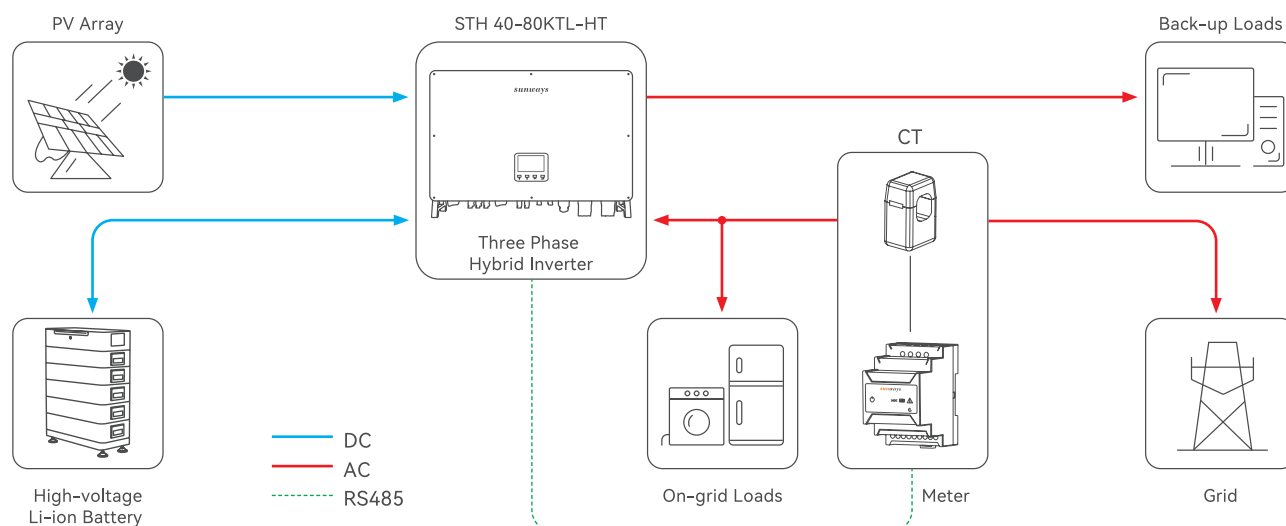
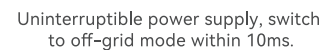
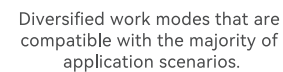
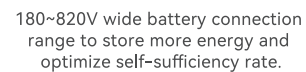
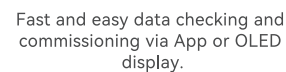
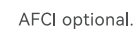
- **MAX. EFFICIENCY 98.2%**
- **IP66 PROTECTION**

STH 40~80kW

THREE PHASE | 5 MPPTS | HYBRID INVERTER (HV)



Maximum 44A input current per MPPT,
support high power solar panel.



Battery	
Battery communication mode	CAN / RS485
Battery voltage range (V)	200~850
Number of battery input	2
Max. charge / discharge current(A)	180 (90x2)

Output (Back-up)					
Rated Output Power (W)	40	50	60	70	80
Max. Output Power (W)	44	55	66	77	88
Back-up Output Rated Apparent Power (VA)	44 (48 @ 60sec, 60 @ 10sec)	55 (60 @ 60sec, 75 @ 10sec)	66 (72 @ 60sec, 90 @ 10sec)	77 (84 @ 60sec, 105 @ 10sec)	88 (96 @ 60sec, 120 @ 10sec)
AC output rated current (A)	58	72.5	87	101.4	115.9
Max. Output Current (A)	66.7	83.3	100	116.7	133.3
UPS switching time	<10ms				
Rated Output Voltage (V)	3/N/PE, 230 (400)				
Rated AC Frequency (Hz)	50/60				
Voltage harmonic distortion	<3% @Linear load				

Efficiency						
Max. Efficiency	98.1%	98.1%	98.1%	98.2%	98.2%	98.2%
Euro Efficiency	97.3%	97.3%	97.3%	97.4%	97.4%	97.4%
Max. Battery Charging Conversion Efficiency	97.2%	97.2%	97.2%	97.3%	97.3%	97.3%
Max. Battery Discharge Conversion Efficiency	97.2%	97.2%	97.2%	97.3%	97.3%	97.3%

General Data	
Over Voltage Category	PV: II, Main: III
Dimensions [W*H*D] (mm)	640*490*290
Weight (kg)	48
Protection Degree	IP66
Self-consumption at Night (W)	<15
Topology	Transformerless
Operating Temperature Range (°C)	-30~60
Relative Humidity (%)	0~100
Operating Altitude (m)	3000
Cooling	Smart Fan Cooling
Noise Level (dB)	<50
Display	OLED & LED
Communication	WiFi/LAN (Optional)

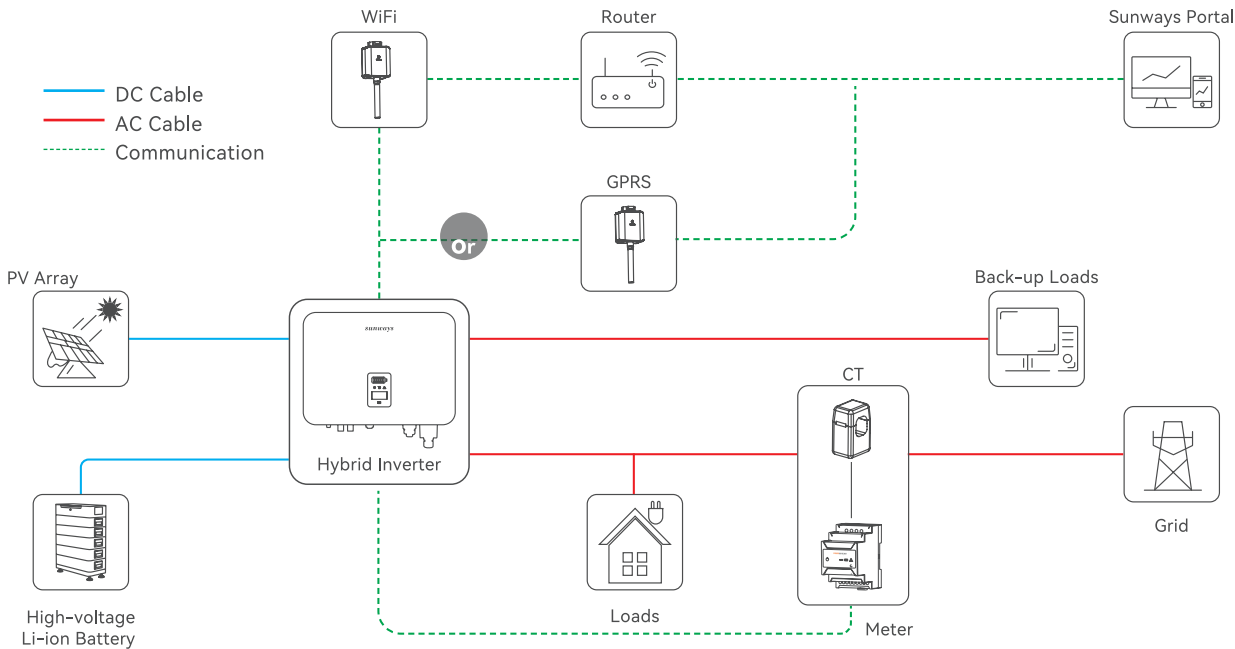
① The maximum input voltage is the maximum DC input voltage that the inverter can withstand, exceeding this voltage may cause damage, and such damage is not covered under warranty.

② The maximum input voltage is the maximum DC input voltage that the inverter can withstand, exceeding this voltage may cause damage, and such damage is not covered under warranty.

BATTERY (HV)

- Stack installation, time and cost-saving
- Longer cycle life battery(6,000 cycles)
- Support remote diagnosis & upgrade
- Charge your battery within one hour
- Optional battery capacity ranges from 5.12-20.48kWh
- Perfect match up with both residential and commercial inverter

STE-BS 5~20kWh
SUNWAYS STACKABLE LITHIUM BATTERY



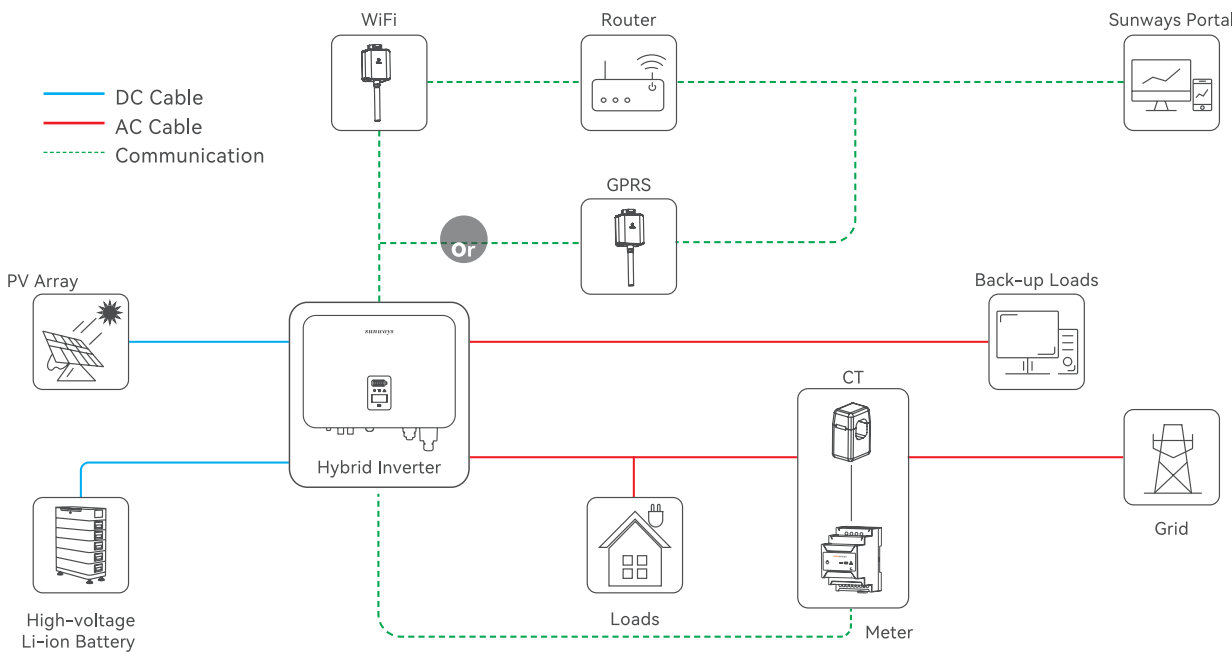
Model	STE-BS5	STE-BS7	STE-BS10	STE-BS12	STE-BS15	STE-BS17	STE-BS20
Battery Usable Energy (kWh)	5.12	7.68	10.24	12.8	15.36	17.92	20.48
Battery Capacity (Ah)	50	50	50	50	50	50	50
Nominal Voltage (V)	102.4	153.6	204.8	256	307.2	358.4	409.6
Maximum Charge/Discharge Current (A)	50	50	50	50	50	50	50
Recommend Continuous Charge/Discharge Current (A)	25	25	25	25	25	25	25
Weight (kg)	74.5	101.6	128.7	155.8	182.9	210	237.1
Dimension[W*H*D] (mm)	708*497*315	708*634*315	708*771*315	708*908*315	708*1045*315	708*1182*315	708*1319*315
Protection Degree	IP54						
Cycle Life	6,000 cycles @ 90%DOD						
Operating Temperature Range (°C)	0~50						
Storage Temperature (°C)	0~35						
Relative Humidity	≤95%						
Altitude (m)	2000						
Internal Battery Module	STE-P2560						
Module Connection	Series / Hard Connection with Positioner						
Installation Method	Stackable						
Number of Modules	2	3	4	5	6	7	8
Communication Protocol/Connector Type	CAN/RJ45						

- Standard operating temperature for batteries is 25°C
- STH 3~8KTL-HS series suitable battery range from STE-BS5-BS20
- STH 4~12KTL-HT series suitable battery range from STE-BS7-BS20
- STH 15~33KTL-HT series suitable battery range from STE-BS10-BS20

BATTERY (HV)

- LiFeP04 Safe Battery Chemistry
- ≥6,000 Cycles at 90% DOD
- “Z” type cell craft, makes better thermo-stability
- Smart BMS for Safety Protection
- Charge Temperature: 0°C-50°C
- Discharge Temperature: 0°C-50°C

STE-ES 5~30kWh
SUNWAYS STACKABLE LITHIUM BATTERY

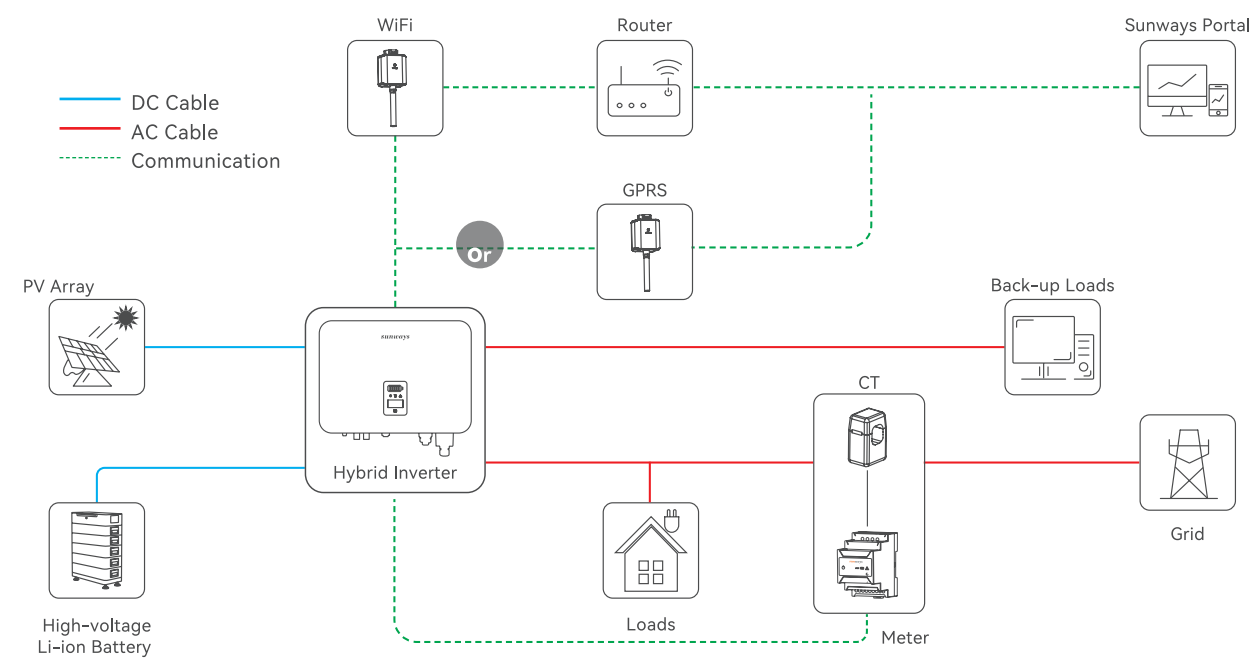


Model	STE-ES5	STE-ES10	STE-ES15	STE-ES20	STE-ES25	STE-ES30
Battery Usable Energy (kWh)	5.12	10.24	15.36	20.48	25.60	30.72
Battery Capacity (Ah)	50	50	50	50	50	50
Nominal Voltage (V)	102.4	204.8	307.2	409.6	512	614.4
Maximum Charge/Discharge Current (A)	50	50	50	50	50	50
Recommend Continuous Charge/Discharge Current (A)	25	25	25	25	25	25
Weight (kg)	73	119	165	211	257	303
Dimension [W*H*D] (mm)	700*365*430	700*530*430	700*695*430	700*860*430	700*1025*430	700*1190*430
Protection Degree	IP54					
Cycle Life	6,000 cycles @90% DOD					
Operating Temperature Range(°C)	0~50					
Storage Temperature(°C)	0~35					
Relative Humidity	≤95%					
Altitude (m)	2000					
Internal Battery Module	STE-P5120					
Module Connection	Series / Hard Connection with Positioner					
Installation Method	Stackable					
Number of Modules	1	2	3	4	5	6
Communication Protocol/Connector Type	CAN/RJ45					

- Standard operating temperature for batteries is 25°C
- STH 3~8KTL-HS series suitable battery range from STE-ES5-ES20
- STH 4~12KTL-HT series suitable battery range from STE-ES10-ES30
- STH 15~33KTL-HT series suitable battery range from STE-ES10-ES30



- Safer**
Cobalt Free Lithium Iron Phosphate(LFP)Battery, safety and long lifespan, high efficiency and high-power density. Intelligent BMS, providing complete protection.
- Reliable**
Support high discharge power, module level Auto-balancing, under-voltage Automatic Restart.
- Flexible**
Modular design, easy to expand, Max capacity of 61.44 kWh. Suited to residential and commercial applications for increasing the self consumption ratio.
- Convenient**
Battery module auto networking, Automatic IP addressing, easy maintenance, remotely monitoring and upgrade, support USB drive upgrade the firmware.
- Eco-Friendly**
Use environmental protection materials, the whole module non-toxic, pollution-free.
- Floor-stand**
Free stand design, floor-mounted, saving installation space.



Model	STE-FS10	STE-FS20	STE-FS30	STE-FS40	STE-FS50	STE-FS60
Battery Usable Energy (kWh)	10.24	20.48	30.72	40.96	51.2	61.44
Battery Capacity (Ah)	100	100	100	100	100	100
Nominal Voltage (V)	102.4	204.8	307.2	409.6	512	614.4
Maximum Charge/Discharge Current (A)	70	70	70	70	70	70
Recommend Continuous Charge/Discharge Current (A)	50	50	50	50	50	50
Weight (kg)	105	194	283	372	461	550
Dimension [W*D*H](mm)	720*420*455	720*420*750	720*420*1045	720*420*1340	720*420*1635	720*420*1930
Protection Degree	IP65					
Cycle Life	6,000 cycles @90% DOD					
Operating Temperature Range (°C)	0~50					
Storage Temperature (°C)	0~35					
Relative Humidity	≤95%					
Altitude (m)	2000					
Internal Battery Module	STE-P10240					
Module Connection	Series / Hard Connection with Positioner					
Installation Method	Stackable					
Number of Modules	1	2	3	4	5	6
Communication Protocol/Connector Type	CAN/RJ45					

·Standard operating temperature for batteries is 25°C
·STH 3~8KTL-HS series suitable battery range from STE-FS10-FS40
·STH 4~12KTL-HT series suitable battery range from STE-FS20-FS50
·STH 15~33KTL-HT series suitable battery range from STE-FS20-FS50



Safety LiFePO₄
LFP Battery Chemistry



Easy Installation

Plug and Play



Wall Mounted
Upto 16 Units in Parallel



Stable & Reliable
Smart BMS

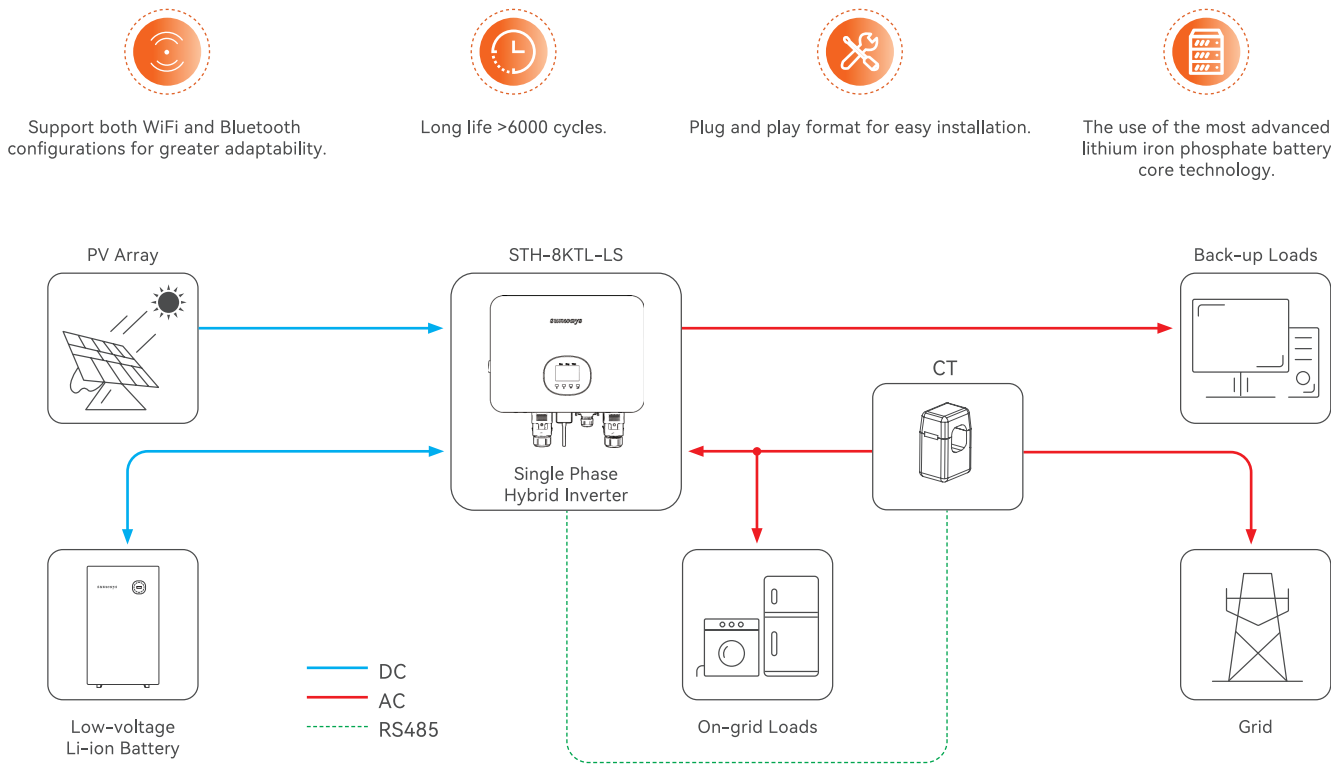


Long Battery Life
>6,000 Cycles Life (90% DOD)



Widely Compatible
Compatible with Mainstream Inverters

Model	STE-MS5	STE-MS10
Battery Type	51.2V 100Ah LiFePO4	51.2V 200Ah LiFePO4
Nominal Energy(kWh)	5.1	10.2
Usable Energy(kWh)	4.6	9.2
Peak Output Power (KW, 10Seconds)	7.7	10.2
Round-Trip Efficiency	97.5%	
Nominal Voltage(V)	51.2	
Operating Voltage(V)	44-58.4	
Max Charge/Discharge Current(A)	100	150
Recommended Charge/Discharge Current(A)	50	100
Communication	CAN,RS485	
Enclosure Protection Rating	IP21	
Operating Temperature (°C)	-20-60	
Cooling Type	Natural Cooling	
Installation	Wall Mounted, Indoor	
Cycles Life	>6,000(25°C)	
Recommend DOD	90%	
Dimension (W*H*D, mm)	650*430*155	780*540*155
Weight (kg)	48	88
Humidity	5%-95%	
Altitude(m)	<2,000	
Warranty	5 Year Product Warranty, 10 Year Performance Warranty	
Scalability	Max 16 Pcs in Parallel	



Model	STE-NS16
Battery Type	51.2V 320 AH LiFePO4
Nominal Energy (kWh)	16.4
Usable Energy (kWh)	14.8
Peak Output Power(KW,10Seconds)	15.4
Round-Trip Efficiency	≥97.5%
Nominal Voltage(V)	51.2
Operating Voltage(V)	44~58.4
Max Charge / Discharge Current (A)	200/200
Communication	CAN,RS485
Enclosure Protection Rating	IP21
Operating Temperature(°C)	-20~60
Cooling Type	Natural Cooling
Installation	Free Stand,Indoor
Cycles Life	>6,000(25°C)
Recommend DOD	90%
Dimension (W*H*D,mm)	573*981*168
Weight(Kg)	130
Humidity	5%~95%
Altitude(m)	<2,000
Warranty	5 Year Product Warranty, 10 Year Performance Warranty
Safety Standard	UL1973/IEC62619/UN38.3



Model	STE-OS5	STE-OS10	STE-OS15	STE-OS20
Total Energy [kWh]	5.12	10.24	15.36	20.48
Battery Module	51.2V 5.12kWh			
Number of Modules	1	2	3	4
Cell Type	LFP (LiFe PO4)			
Nominal Voltage [V]	51.2	51.2	51.2	51.2
Operating Voltage Range [V]	40-58.4	40-58.4	40-58.4	40-58.4
Max. Charge / Discharge Current [A]	100	120	120	120
Continue Discharge Output [kW]	5	6	6	6
Dimensions [W*D*H mm]	740*240*490	740*240*795	740*240*1100	740*240*1405
Approximate Weight [KG]	63.2	112.4	161.6	210.8

General Specifications

Recommend Depth of Discharge	90%
LED Indicator	4 LED (SOC: 25%-SOC:100% blue), 2 LED (working green, alarming red)
IP Rating of Enclosure	IP65(Outdoor)
Operating Temperature	Charge: 0°C ~ 50°C/Discharge: -20°C ~ 50°C
Storage Temperature	0°C ~ 35°C
Humidity	≤95%
Altitude	≤2000m
Cycle Life	6000 cycles (90% DOD, 25°C)
Warranty	5 Year Product Warranty, 10 Year Performance Warranty
Installation	Floor-mounted, Stack
Communication Port	CAN

[1] DC Usable Energy, test conditions: 90% DOD, 1C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

[2] The current is affected by temperature and SOC.

Safety and long lifespan,
high efficiency and high-power density

Remotely monitoring and upgrade,
support IOT function for
smarter and more efficient battery pack
operation and maintenance.

Battery module auto networking,
Automatic IP addressing, easy
maintenance Free stand design
and saving installation space

Intelligent BMS,
providing complete protection

Whole module non-toxic,
pollution-free

Support high discharge power,
module level Auto-balancing

- Max. 4 parallel operating in a system
- IP65(Suitable for outdoor scenes)
- Remote diagnosis and real-time data monitoring
- Double protection

STE-QS 16~64kWh

LOW-VOLTAGE INTEGRATED LITHIUM BATTERY



Safety and long lifespan,
high efficiency and high-power density



Modular design,
easy to move around.
Suitable for multiple scenarios.



Support high discharge power,
inter-cell balancing.



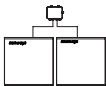
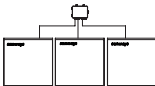
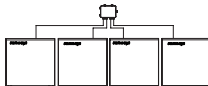
Whole module non-toxic,
pollution-free.



Support snapshot function for fault analysis and historical data records.



Remotely monitoring and upgrade,
support IOT function, DTC function.

Model	STE-QS16	STE-QS32	STE-QS48	STE-QS64
Schematic Drawing				
Total Energy [kWh]	16	32	48	64
Battery Module	51.2V 16kWh			
Number of Modules	1	2	3	4
Cell Type	LFP (LiFe PO4)			
Nominal Voltage [V]	51.2			
Operating Voltage Range [V]	40-58.4			
Max. Charge / Discharge Current [A]	300	350	350	350
Continue Discharge Output [kW]	15.36	17.92	17.92	17.92
Dimensions [W*D*H mm]	724*240*710			
Approximate Weight [KG]	121	242	363	484

General Specifications

Recommend Depth of Discharge	90%
LED Indicator	4 LED (SOC: 25%-SOC:100% blue), 2 LED (working green, alarming red)
IP Rating of Enclosure	IP65
Operating Temperature	Charge: 0°C ~ 50°C / Discharge: -20°C ~ 50°C
Storage Temperature	0°C ~ 35°C
Humidity	≤95%
Altitude	≤4000m
Cycle Life	10 + years, ≥ 8000 cycles (70 % EOL, 80 % DOD,25 °C)
Warranty	5 Year Product Warranty, 10 Year Performance Warranty
Installation	Floor-mounted, Wall-mounted(Optional) Wall-mounted installation requires professional evaluation of wall load-bearing capacity.
Equipment Form	Casters (Optional)
Communication Port	CAN
Fire extinguishing	Aerosol (Optional)

*For parallel operation requirements, it can be used with Sunways Combiner Box.

****Research and Development Version–Not Final Specifications.** The final interpretation rights belong to Sunways.



WIFI & Bluetooth
Smart BMS



Easy Installation
Plug and Play



Expandable
Max 63 Pcs in Parallel



Safety LiFePO₄
LFP Battery Chemistry



Whole module non-toxic,pollution-free



Support high discharge power,
module level Auto-balancing,
under-voltage automatic restart.

Model	STE-PS30	STE-PS32
Battery Type	51.2V 600Ah LiFePO4	51.2V 640Ah LiFePO4
Nominal Energy(kWh)	30.8	32.8
Usable Energy(kWh)	27.6	29.5
Peak Output Power(kW, 10Seconds)	15.4	
Round-Trip Efficiency	≥97.5%	
Nominal Voltage(V)	51.2V	
Operating Voltage(V)	44~58.4	
Max. Charge / Discharge Current(A)	200/200	
Communication	CAN,RS485	
Enclosure Protection Rating	IP21	
Operating Temperature(°C)	-20~60	
Cooling Type	Natural Cooling	
Installation	Free Stand, Indoor	
Cycles Life	>6000(25°C)	
Design Life	20+ Years(25°C@77°F)	
Recommend DOD	90%	
Dimension(W*H*D,mm)	815*850*240	
Weight(kg)	218	244
Humidity	5%~85%	
Altitude(m)	<2000	
Warranty	5 Year Product Warranty, 10 Year Performance Warranty	
Safety Standard	UL1973/IEC62619/UN38.3	
Scalability	Max 63 Pcs in Parallel	

[1] DC Usable Energy, test conditions: 90% DOD, 1C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

[2] The current is affected by temperature and SOC.



Model	STE-GS 80.4-176.9kWh						
Battery Module							
Rated energy (KWh)	16.08						
Rated voltage (V)	51.2						
Rated capacity (Ah)	314						
Dimension (W*D*H, mm)	532*775*234(±5)						
Weight (kg)	113±3						
Battery Rack							
Nominal Voltage(V)	5modules +1 BCU	6modules +1 BCU	7modules +1 BCU	8modules +1 BCU	9modules +1 BCU	10modules +1 BCU	11modules +1 BCU
Rated voltage (V)	256	307.2	358.4	409.6	460.8	512	563.2
Voltage range (V)	224.0~284.0	268.8~340.8	313.6~397.6	358.4~454.4	403.2~511.2	448.0~568.0	492.8~624.8
System energy (KWh)	80.4	96.48	112.56	128.64	144.72	160.8	176.88
System usable energy (KWh)	72.36	86.83	101.30	115.78	130.25	144.72	159.19
Weight (kg)	642	770	900	1030	1150	1300	1420
Dimension (W*D*H,mm)	540*870*1620	540*870*1860	540*870*2100	1080*870*1380		1080*870*1620	
Charge/discharge current (A)	Recommend 157 Max 180						
Working temperature (℃)	Charge: 0~55 / Discharge: -20~55						
Humidity (%)	5%~85%RH						
Altitude (m)	≤ 3000						
Protection degree	IP20						
Installation location	Rack-Mounted						
Storage temperature (℃)	0~35						
Recommend depth of discharge	90%						
Cycle life	≥ 6000 (25±2℃ /0.5C/EOL70%)						
Certification	CE UN38.3						



Safety
BMS & Breaker modular lever protection



Automatic Laser Welding
Good battery consistency,small internal resistance,superior charging and discharging performance



Fast Installation
Plug & Play battery interface/
Plug in modular design



Perfect Compatibility
Compatible to most inverter brands on the market



Excellent Heat Dissipation
The module adopts self-opening heat dissipation partition



Long Life
10-15 years life design, more than 6000 cycles



6000 cycles lifespan.



Real-time remote monitoring.



Off-grid/On-grid System.



IP65 protection degree
Outdoor and Indoor Application.



Brand new A-grade lithium iron phosphate battery cell.



Built-in Secure Intelligent
EMS Management System.

Model	STE-GS80
Battery Type	51.2V 104Ah
Nominal Energy [kWh]	81.92
Cell Type	LFP 2P128S
Nominal Voltage [V]	409.6V
Operating Voltage [V]	358.4~467.2V
Dimensions [W*D*H] (mm)	1142*951*1952
Communication	RS485, CAN, WiFi, Bluetooth
Storage Temperature [°C]	-20~55
Humidity	<95% (RH) no condensation
Operating Temperature [°C]	Charging: 0°C~55°C Discharging: -20°C~55°C
Altitude [m]	≤2000m
Cooling Type	Smart Fan Cooling
Protection Degree	IP54
Cycle Life	>6000 cycles(25°C, 80%DOD)
Communication Port	CAN
Warranty	5 Years Product Warranty, 5 Years Performance Warranty



- Engineered with multi-level disconnection and a 3-tier intelligent fire protection system, fully compliant with GB, UL, and IEC standards.

ULTIMATE SAGETY (3-TIER PROTECTION)
- Integrated BMS/EMS enables VPP connectivity, real-time dispatch, and flexible modes for optimized returns.

SMART & PROFITABLE MANAGEMENT
- Highly integrated design drastically reduces deployment costs. Features LFP cells guaranteeing a system lifespan of up to 15 years.

COST-OPTIMIZED & LONG-LIFE
- Modular, all-in-one system allows direct low-voltage connection and ensures rapid, easy installation for diverse applications.

FLEXIBLE & FAST DEPLOYMENT

Model	STA-HT125/261
DC Parameters	
Battery Type	Lithium iron phosphate (LFP)
Rated Capacity	261kWh
Cycle Life	8000 cycles @ (0.5P/0.5P, DOD100%, 70%EOL)
Configuration	1P260S
Rated Voltage	832V(25°C±2°C)
Voltage Range	728V ~ 936V
Max. Charging / DischargingPower	0.5P / 0.5P
AC Parameters	
Rated Power	125kW
Max Power	137.5kVA
Rated Voltage	230V/400V
Voltage Deviation	-15%~+15%
Rated Frequency	50/60Hz
Current THD	< 2% (rated power)
Power Factor	1 (leading) ~ 1 (lagging)
AC Output Type	Three-phase four-wire
System Parameters	
Operating Temperature	0°C~55°C(charging), -25°C~55°C(discharging)
Humidity Range	≤95%,RH
Operating Altitude	<2000m
IP Rating	IP55
Cooling Method	Liquid-cooled
Fire Extinguishing Agent	Aerosol
Weight	2700±50kg
Dimension(W*D*H)	1000*1440*2380(mm)
Communication	RS485/CAN/ Ethernet
Certification	UN38.3, IEC62619, IEC63056, IEC61000, IEC62477



- Efficient and intelligent thermal management design
- Hierarchical linkage protection
- Cabinet fire barrier, 1200 °C * 2h

SAFE AND EFFICIENT



- Highly integrated design, system efficiency up to 88%
- Adopt lithium iron phosphate long - life battery with a cycle life of 6000 cycles
- 30% lower energy consumption than air-cooling system

ECONOMICAL AND RELIABLE



- With energy storage cloud platform, full life cycle health management
- Built-in EMS, multiple operating modes to increase revenue
- Strong compatibility, support remote upgrade and control

SMART AND FRIENDLY



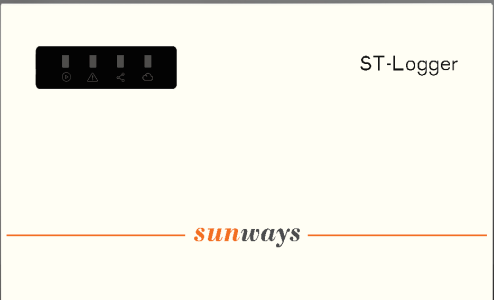
- All - in - one design, can be directly connected to the low-voltage distribution network
- Adapt to different application scenarios
- Easy installation and debugging, flexible

FLEXIBLE LAYOUT



Model	STA-HT215/418
Battery type	Lithium iron phosphate (LFP)
Rated capacity	314Ah
Rated energy	418 kWh
DC rated voltage	1331.2V (25°C±2°C)
DC working voltage range	1164.8V~1497.6V
Rated power	215kW
AC output voltage	690V/800V
Charging and discharging mode	Constant power
Power of liquid cooler	8kW
Battery self discharge rate	≤3%/month (25°C, 50%SOC)
Factory state of charge	30%~40%SOC
Way of fire protection	PACK grade aerosol + cluster grade aerosol + cluster grade water fire protection
IP rating	IP55
Altitude	<2000m
Operating temperature	0 °C~55°C (charging), -25 °C~55°C (discharging)
Storage temperature	-25°C~55°C
Operating humidity	5%~95%, RH
Weight	3800±50kg
Dimensions (length*width*height)	L1680*W1400*H2335mm
Installation position	Outdoor

- 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



DATA LOGGER

- Export limitation & control
- Various models of CT are available
- Compatible with various grid types
- High current measurement precision



SMART METER

Technical Parameters

General Data		Environmental Data	
Max. number of Inverters	90 (30/RS485 Port)	Operating Temperature (°C)	-10~+60
Preference Setting	Remote Web / APP	Operating Humidity	0%-90% relative humidity, no condensation
Firmware Upgrade	Wireless upgrade	Operating Altitude (m)	≤4000
Working Voltage (V)	DC 12	Storage Temperature (°C)	-40~+85
Power Consumption (W)	< 10	Storage Humidity	< 40%
		Protection Degree	IP20
Interface Specification			
RS485 Interface	4 ports (3 ports for inverters connection, 1 port for other devices connection), Baud 9600bps (Adjustable from 1200-57600 bps)		
Ethernet Interface	1 port, 10/100Mbps Self-adaptive		
Wireless Interface	WiFi/GPRS Alternative		
Output Dry Contact	Two independent dry contacts, 230V/1A		
Other Interface	CAN/USB/SD/SIM		
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		
Communication Distance (m)	100 (without obstacles)		

Technical Parameters

Model		STM
Voltage Range (V)		85~280
Frequency (Hz)		50/60
Rated Current (A)		90A/120A/300 (With CT)
Self-consumption (W)		<3
Data Detection		Current/Voltage/Active Power/Reactive Power/Power Factor/Frequency
Calculated Value		Power Factor/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 (mm2)	0.5~4 (Copper Core Wire)
	Size [L*W*H] (mm)	85*54*75
	Weight (g)	150
	Protection Degree	IP20 (For Indoor Use)
		35mm DIN Rail
Installation Method		
Operating Temperature (°C)		-25 ~ +60
Operating Humidity		<95%, No Condensation
Altitude (m)		<2500

- 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



GPRS MODULE

- Plug and play 1s installation
- Data encrypted to ensure data security
- Supports breakpoint retransmission
- Remote upgrade available
- Stable and reliable data transmission via wired internet cable
- Default dynamic IP mode and static IP commissioning available



LAN MODULE

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	
Wireless Transmitting 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 [L*W*H] (mm)	156*52*30
Weight (g)	140
Warranty (years)	2

Technical Parameters

General Data	
Max. number of Inverters	1
Inverter Communication	USB3.0
Remote Communication	IEEE802.3 10
Serial Port Communication Rate (bps)	115200
MAX. Communication Distance (m)	100
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 [L*W*H] (mm)	116*52*30
Weight (g)	100
Warranty (years)	2

- Plug and play 1s installation
- Metal body, beautiful and long durable
- Easy to configure with Sunways Monitoring App
- Support local and remote monitoring
- IP65, for both indoor and outdoor installation
- Enable mobile monitoring at anytime any-where



WIFI MODULE

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 [L*W*H] (mm)	156*52*30
Weight (g)	130
Warranty (years)	2

MONITORING PORTAL

Web Monitoring Portal:
www.sunways-portal.com

App: Sunways Portal
Google play & Apple store

One click diagnose device

Multi-dimensional data visualization

Customized dynamic data & energy flow presentation

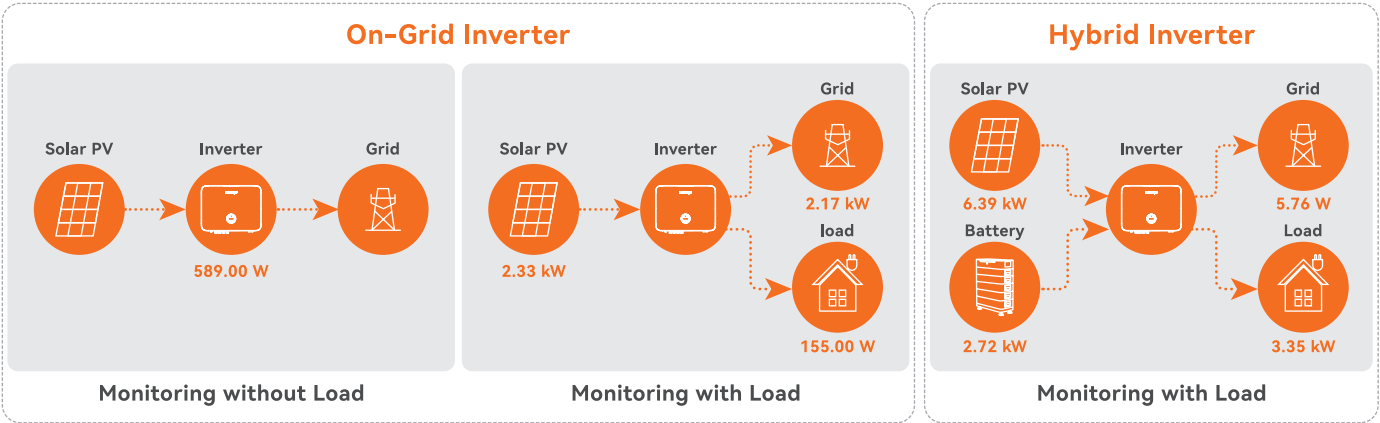
Support multiple languages operation

One App for all roles, UI auto changed according to user's role

Rich data analysis-Realtime/Daily/Monthly/Yearly

Check and manage your plant at anytime, anywhere

Only owner account can be registered via APP, For distributor account pls need to contact with Sunways team.



MONITOTING DEVICES

