## sunways





Max. Efficiency up to 97.6%.



With AC output ranging from 3kW to 10kW.



Powerful load adaptability, support loads stable access.



Fast and easy data checking and commissioning via App or OLED display.



Fast charging/discharging of up to 190A to meet the demand of higher consumption and energy trading.



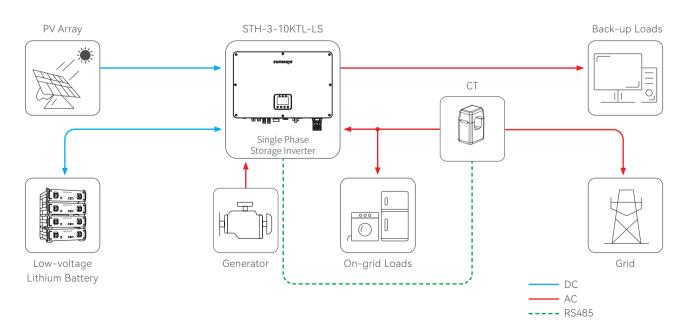
Up to 18A maximum PV input current allows most higher current PV panels connection and lowers the system LCOE.



Uninterruptible power supply, switch to off-grid mode within 10ms.



Support Diesel Generator.



	Model	STH-3KTL -LSS	STH-3.6KT L-LS	STH-4.2KTL -LS	STH-4.6KTL -LS	STH-5KTL -LS	STH-6KTL -LS	STH-7KTL -LS	STH-8KTL -LS	STH-10KTL -LS	
	Start-up Voltage (V)	160	160	160	160	160	160	160	160	160	
	Max. DC Input Voltage (V)	600	600	600	600	600	600	600	600	600	
	Rated DC Input Voltage (V)	360	360	360	360	360	360	360	360	360	
	MPPT Voltage Range (V)	160-550	160-550	160-550	160-550	160-550	160-550	160-550	160-550	160-550	
PV Input	No. of MPP Trackers	1	2	2	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	1/1	1/1	
	Max. Input Current (A)	18	18/18	18/18	18/18	18/18	18/18	18/18	18/18	18/18	
	Max.Short-circuit Current (A)	22	22/22	22/22	22/22	22/22	22/22	22/22	22/22	22/22	
	Battery Type				Lithium ba	ttery or lead-a	cid battery				
	Battery Communication Mode					CAN / RS485					
Battery	Battery Voltage Range (V)					42-58				190/190	
	Max. Charge/Discharge Current (A)	100/100	100/100	100/100	100/100	100/100	120/120	150/150	190/190		
	Rated Current Of Built-in Fuse (A)	150	150	150	150	150	150	300	300	300	
	Rated Output Power (W)**	3,000	3,600	4,200	4,600	5,000/4,990 1	6,000	7,000	8,000	10,000	
	Max. Output Power (W)	3,300	3,960	4,600	5,060	5,500/4,990 1	6,600	7,700	8,800	11,000	
	AC Output Rated Apparent Power (VA)	3,000	3,600	4,200	4,600	5,000/4,990 1	6,000	7,000	8,000	10,000	
	Max. Apparent Power (VA)	3,300	3,960	4,600	5,060	5,500/4,990 1	6,600	7,700	8,800	11,000	
	Max. Input Apparent Power (VA)	6,000 2	7,200 2	8,400 2	9,200 2	10,000 <sup>②</sup>	12,000 <sup>②</sup>	12,000 <sup>②</sup>	12,000 <sup>2</sup>	12,000 2	
	Grid Type**	L/N/PE, 220/230V									
Output	Rated AC Frequency (Hz)	50/60									
(Grid)	AC Output Rated Current (A)	13	15.7	18.3	20	21.7	26.1	31	35	44	
	Max. Output Current (A)	15	18	20	22	25/21.7 <sup>①</sup>	28.7	34	38.3	48	
	Maximum Output Overcurrent Protection (A)	50	50	50	50	50	80	80	80	80	
	Power Factor				0.8 l€	eading0.8 lag	gging				
	THDi @ Rated Power					<3%					
	DCI					<0.5%In					
	Rated Output Power (W)	3,000	3,600	4,200	4,600	5,000/4,990 1	6,000	7,000	8,000	10,000	
	Max. Output Power (W)	3,300	3,960	4,600	5,060	5,500/4,990 1	6,600	7,700	8,800	11,000	
	Back-up Output Rated Apparent Power (VA)	3,000	3,600	4,200	4,600	5,000/4,990 <sup>①</sup>	6,000	7,000	8,000	10,000	
	Max. Apparent Power (VA)	3,300	3,960	4,600	5,060	5,500/4,990 1	6,600	7,700	8,800	11,000	
Output	Back-up Output Rated Current (A)	13	15.7	18.3	20	21.7	26.1	31	35	44	
(Back-up)	Max. Output Current (A)	15	18	20	22	25/21.7 <sup>①</sup>	28.7	34	38.3	48	
	UPS Switching Time (ms)	<10									
	Grid Type	L/N/PE, 220/230V									
	Rated AC Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	
	Peak Output Apparent Power (VA)	3,900 <sup>3</sup> ,60s	4,700 <sup>3</sup> ,60s	5,500 <sup>3</sup> ,60s	6,000 <sup>3</sup> ,60s	6,500 <sup>®</sup> ,60s	7,800 <sup>®</sup> ,60s	9,100 <sup>3</sup> ,60s	10,000 <sup>3</sup> ,60s	13,000 <sup>3</sup> ,60s	
	THDi @ Rated Power				I	<3%					
	Max. Efficiency	97.6%	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%	97.0%	
Efficiency	Battery Charged by PV Max. Efficiency	98.0%	98.0%	98.0%	98.0%	98.0%	98.0%	98.0%	98.0%	98.0%	
	Battery Charged by AC Max. Efficienc	96.6%	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%	96.6%	
Protection				Gene	eral Data						
DC Reverse	Polarity Protection	Integ	rated	Dime	nsions [W*H*[	)] (mm)		(	540*430*202		

Protection		General Data				
DC Reverse Polarity Protection	Integrated	Dimensions [W*H*D] (mm)	640*430*202			
Battery Input Reverse Polarity Protection	Integrated	Weight (kg)	34			
nsulation Resistance Detection Integrated  DC Switch Optional		Protection Degree	IP66			
		Self-consumption at Night (W)	< 15			
Surge Protection	Integrated	Topology	Transformerless -30~60			
		Operating Temperature Range (°C)				
Over-temperature Protection	Integrated	Relative Humidity (%)	0~100			
Residual Current Protection	Integrated	Operating Altitude (m)	4000 (derating > 3000)			
Anti-islanding Protection	Integrated	Cooling	Smart Fan Cooling			
AC Over-voltage Protection	Integrated	Noise Level (dB)	< 50			
Overload Protection	Integrated	Display	TFT3.5 LCD/ OLED			
AC Short-circuit Protection	Integrated	Communication	WiFi/GPRS/LAN(Optional)			

 $<sup>\</sup>hfill \hfill \hfill$ 

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.

 $<sup>** \ \, \</sup>text{Due to differences in voltage values in various countries, minor variations may occur. The final interpretation rights belong to Sunways.}$