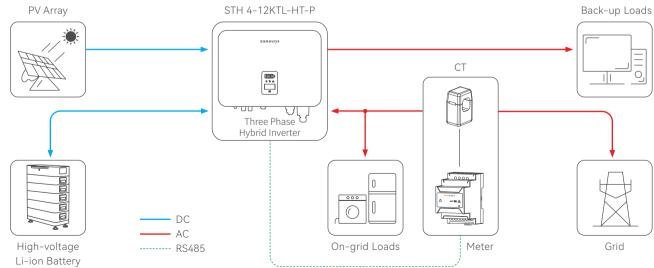
sunways

STH Series





	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 [®]	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 [®]	16,500 [®]	
	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						
(onu)	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 leading0.8 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 [®] , 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 ④	2,100 @	2,600 ④	3,300 ④	4,000 ④	5,000 (4)	
	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		General Data		
DC Reverse Polarity Protection	Integrated	Dimensions [W*H*D] (mm)	550*410*175	
Battery Input Reverse Connection Protection	Integrated	Weight (kg)	26~28	
Insulation Resistance Detection Integrated		Protection Degree	IP65	
DC Switch Optional		Self-consumption at Night (W)	< 15	
Surge Protection	Integrated	Тороlоду	Transformerless	
Over-temperature Protection Integrated Residual Current Protection Integrated Anti-islanding Protection Integrated		Operating Temperature Range (°C)	-30~60 0~100% 4000 (derating > 3000) Natural Convection	
		Relative Humidity		
		Operating Altitude (m)		
		Cooling		
Over-voltage Protection Integrated		Noise Level (dB)	< 25	
Overload Protection	Integrated	Display	OLED & LED	
AC Short-circuit Protection	Integrated	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.

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

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