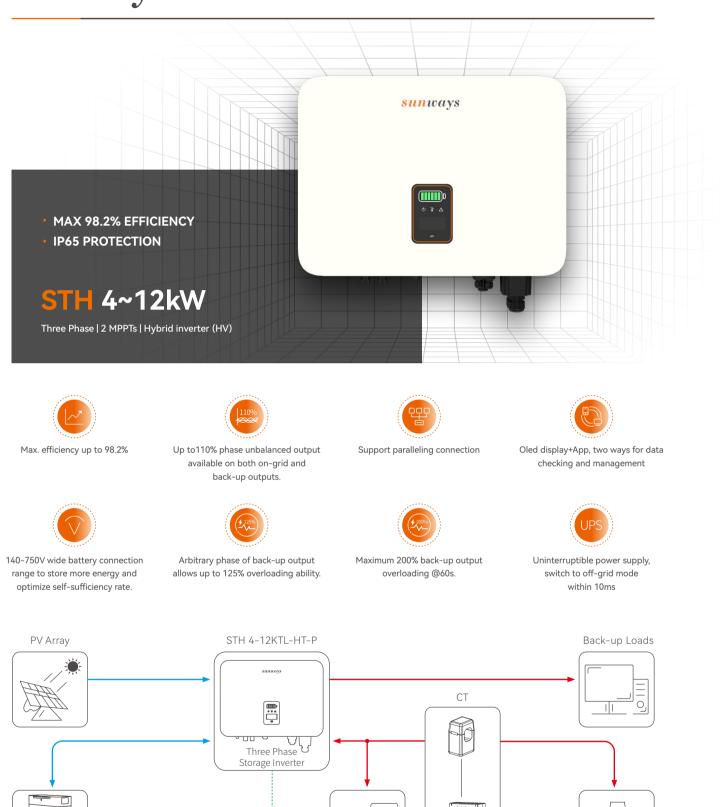
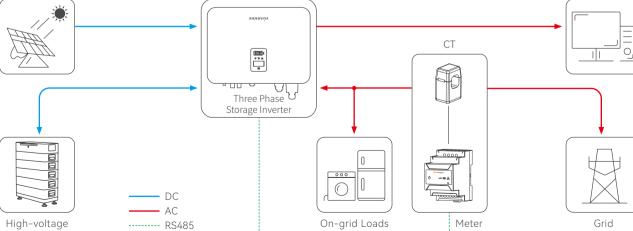
sunways

STH Series





Li-ion Battery

	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 [®]	16/16 ^①	
	Max. Short-circuit Current (A)	18/18	18/18	18/18	18/18	18/18	18/18	
Battery	Battery Type	Lithium Battery (with BMS)						
	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						
	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 2	
	Max. Charging Power of Battery (W)	4,000	5,000	6,000	8,000	10,000	12,000	
Output (Grid)	Rated Output Voltage (V)**	3L/N/PE, 230/400V						
(Ghu)	Rated AC Frequency (Hz)	50/60Hz 45-55Hz/55-65Hz						
	Max. Output Current (A)	6.7	8.3	10	13.3	16.5	20	
	Power Factor	0.8 leading0.8 lagging						
	Max. Total Harmonic Distortion	< 3% @Rated Output Power						
	DCI	< 0.5%In						
	UPS Switching Time	< 10ms						
	Rated Output Voltage (V)	3L/N/PE, 230/400V						
	Rated AC Frequency (Hz)	50/60Hz 45-55Hz/55-65Hz						
Output (Back-up)	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 [®] , 60s	20,000 ³ , 60s	20,000 ³ , 60	
	Peak Output Apparent Power/per Phase (VA)	1,600 ④	2,100 ④	2,600 ④	3,300 ④	4,000 (4)	5,000 ④	
	Voltage Harmonic Distortion	< 3% @Linear Load						
Efficiency	Max. Efficiency	98.1%	98.1%	98.1%	98.2%	98.2%	98.2%	
	European Efficiency	97.3%	97.3%	97.3%	97.4%	97.4%	97.4%	
	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%	
rotection			General	Data				
C Poverse Po	larity Protection	Integrated	Dimensio	ns (mm)		550\\//*/1	0H*175D	

riolection		General Data			
DC Reverse Polarity Protection Integrated		Dimensions (mm)	550W*410H*175D		
Battery Input Reverse Connection Protection	Integrated	Weight (kg)	26~28		
Insulation Resistance Protection	Integrated	Protection Degree	IP65		
DC Switch	Optional	Self-consumption at Night (W)	< 15		
Surge Protection	Integrated	Тороlоду	Transformer less		
Over-temperature Protection	Integrated	Operating Temperature Range (°C)	-30~60 0~100% 4000 (derating@ > 3000) Natural Convection		
	5	 Relative Humidity 			
Residual Current Protection	Integrated	Operating Altitude (m)			
Anti-islanding Protection	Frequency Shift, Integrated	Cooling			
AC Over-voltage Protection	Integrated	Noise Level (dB)	< 25		
Overload Protection	Integrated	Display	OLED & LED		
AC Short-circuit Protection	Integrated Communication		WiFi / LAN (Optional)		

Compliance

IEC62109, EN61000, C10/C11, VDE 4105, UNE217001, UNE217002, RD647, RD1699, CEI021, G99, EN62477, NRS097-2-1, EN50549, NRS097-2-1, UE2016/631, TOR Erzeuger Type A, OVE-Richitlinie R 25

① STH-4K~12KTL-HT series maximum input current per string is 13A, products deliver upon the order.

② Max apparent power from the grid means the maximum power imported from the utility grid used to satisfy the backup loads and charge the battery.

(3) The output power will exceed the rated value only when the power in the PV array is sufficient, and the duration of the overload is relating to the overload power.

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.