





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.



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



200~800V wide battery connection range to store more energy and optimize self-sufficiency rate.



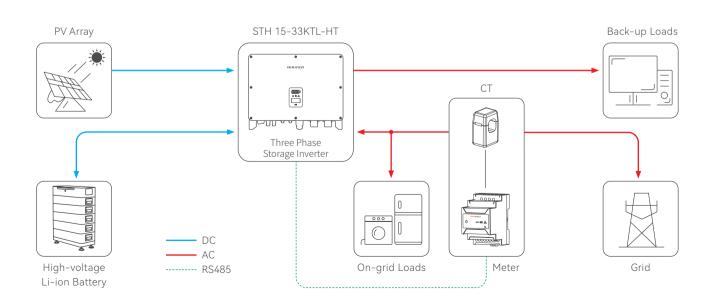
Support continuous 110% AC output overloading on both on-grid and back up sides.



Diversified work modes that are compatible with the majority of application scenarios.



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



	Model	STH-15KTL -HT	STH-17KTL -HT	STH-20KTL -HT	STH-25KTL -HT	STH-29.9KTL -HT	STH-30KTL -HT	STH-33KTL -HT
	Max. Input Power (W)	22,500	25,500	30,000	37,500	44,850	45,000	49,500
PV Input	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)	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
	Battery Communication Mode	CAN / RS485						
Battery	Battery Voltage Range (V)	200-800						
	Max. Charge/Discharge Current (A)	50/50						
	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)						
Output (Grid)	Rated AC Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60
(Grid)	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 leading0.8 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
Output	Back-up output rated current (A)	21.7	24.6	29.0	36.2	43.3	43.5	47.8
(Back-up)	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%						
Efficiency	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%

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)	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 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.

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