





Max. efficiency up to 98.2%



Up to 110% phase unbalanced output available on both on-grid and back-up outputs.



Support paralleling connection



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.



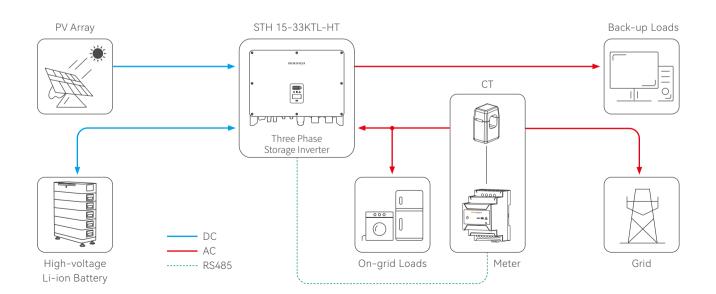
Support continuous 110% AC output overloading on both on-grid and back up sides



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
	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
PV Input	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
	backfeed current to the array (A)	0	0	0	0	0	0	0
	Battery Type	Lithium battery (with BMS)						
Battery	Battery communication mode	CAN / RS485						
	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
	Rated Output Voltage (V)**	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
(GHu)	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						
	Max. total harmonic distortion	<3% @Rated Output Power						
	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	<10ms	<10ms	<10ms	<10ms	<10ms	<10ms	<10ms
	Rated Output Voltage (V)	3L/N/PE, 230 (400)						
	Rated AC Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60
	Voltage harmonic distortion	<3% @Linear load						
Efficiency	Max. Efficiency	98.1%	98.1%	98.1%	98.2%	98.2%	98.2%	98.2%
	European 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%
	i lax battery energing conversion emercine							

Protection				
DC Reverse Polarity Protection	Integrated			
Battery input reverse connection protection	Integrated			
Insulation Resistance Protection	Integrated			
DC Switch	Optional			
Surge Protection	Integrated			
Over-temperature Protection	Integrated			
Residual Current Protection	Integrated			
Anti-islanding protection	Frequency shift, Integrated			
AC Over-voltage Protection	Integrated			
Overload protection	Integrated			
AC Short-circuit Protection	Integrated			

General Data				
Over voltage category	PV: II, Main: III			
Dimensions (mm)	640W*490H*290D			
Weight (kg)	48			
Protection Degree	IP66			
Self-consumption at Night (W)	<15			
Topology	Transformer less			
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)			

Compliance

IEC62109, IEC62116, VDE4105, VDE0126, AS4777, RD1699, NBR16149, IEC61727, IEC60068, IEC61683, EN50549, EN61000, NRS097-2-1, IEC/EN 62477-1

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.