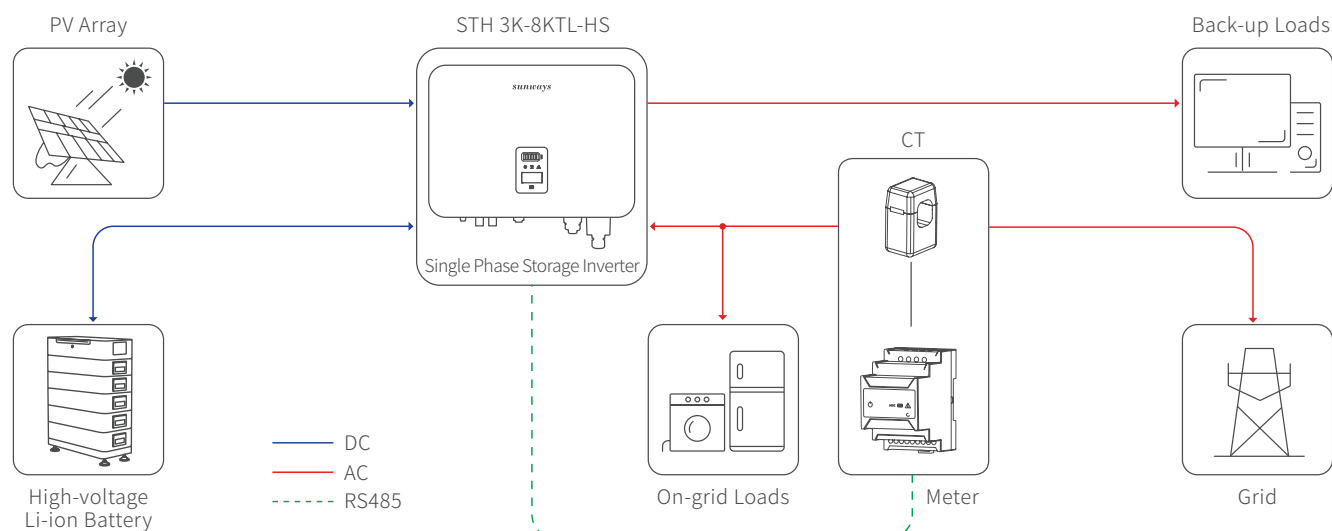
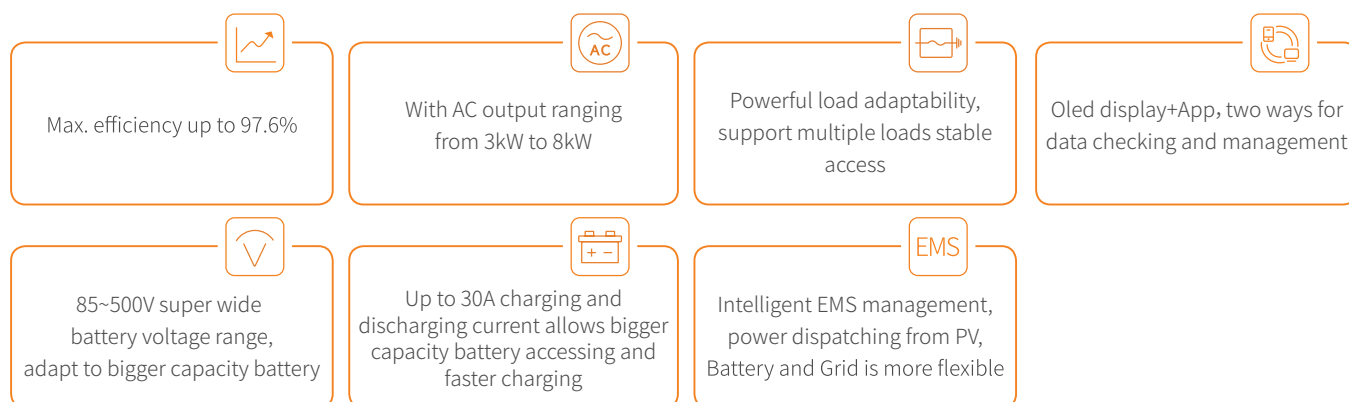


MAX 97.6% EFFICIENCY

IP65 PROTECTION



TECHNICAL PARAMETERS

SINGLE PHASE: STH-3K~8KTL

Model		STH-3KTL-HSS	STH-3.6KTL-HSS	STH-3KTL-HS	STH-3.6KTL-HS	STH-4.2KTL-HS	STH-4.6KTL-HS	STH-5KTL-HS	STH-6KTL-HS	STH-7KTL-HS	STH-8KTL-HS
PV Input	Max. Input Power (W)	3,900	4,680	3,900	4,680	5,460	5,980	6,500	7,800	9,100	10,400
	Start-up Voltage (V)	80	80	80	80	80	80	80	80	80	80
	Min DC Voltage(V)	80	80	80	80	80	80	80	80	80	80
	Max. DC Input Voltage (V)	600	600	600	600	600	600	600	600	600	600
	Rated DC Input Voltage (V)	360	360	360	360	360	360	360	360	360	360
	MPPT Voltage Range (V)	100-550	100-550	100-550	100-550	100-550	100-550	100-550	100-550	100-550	100-550
	No. of MPP Trackers	1	1	2	2	2	2	2	2	2	2
	No. of PV Inputs per MPPT	1	1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
	Max. Input Current (A)	15	15	15/15	15/15	15/15	15/15	15/15	15/15	15/15	15/15
	Max. Short-circuit Current (A)	20	20	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20
Battery	Battery Type	Lithium Battery (with BMS)									
	Battery Communication Mode	CAN / RS485									
	Battery Voltage Range (V)	85-500									
	Max. Charge/Discharge Current (A)	30/30									
	Rated Current of Built-in Fuse (A)	63									
Output (Grid)	Rated Output Power (W)	3,000	3,600	3,000	3,600	4,200	4,600	5,000/4,990 ^①	6,000	7,000	8,000
	Max. Output Power (W)	3,300	3,960	3,300	3,960	4,600	4,600	5,500/4,990 ^①	6,600	7,700	8,000
	Max. Apparent Power (VA)	3,300	3,960	3,300	3,960	4,600	4,600	5,500/4,990 ^①	6,600	7,700	8,000
	Max. Input Apparent Power (VA)	6,000 ^②	7,200 ^②	6,000 ^②	7,200 ^②	8,400 ^②	9,200 ^②	10,000 ^②	12,000 ^②	12,000 ^②	12,000 ^②
	Max. Charging Power of Battery (W)	3,000	3,600	3,000	3,600	4,200	4,600	5,000	6,000	7,000	8,000
	Rated Output Voltage (V)	L/N/PE, 220/230/240V									
	Rated AC Frequency (Hz)	50/60									
	AC output rated current (A)	13	15.7	13	15.7	18.3	20	21.7	26.1	31.8	36.3
	Max. Output Current (A)	15	18	15	18	21	21	25/21.7 ^①	28.7	35	36.3
	Power Factor	0.8 leading ... 0.8 lagging									
	Max. Total Harmonic Distortion	<3% @Rated Output Power									
	DCI	<0.5%ln									
Output (Back-up)	UPS Switching Time	< 10ms									
	Max. Apparent Output Power (VA)	3,300	3,960	3,300	3,960	4,600	4,600	5,500/4,990 ^③	8,800	11,000	13,200
	Peak Output Apparent Power (VA)	3,900 ^③ , 60s	4,700 ^③ , 60s	3,900 ^③ , 60s	4,700 ^③ , 60s	5,500 ^③ , 60s	6,000 ^③ , 60s	6,500 ^③ , 60s	7,800 ^③ , 60s	9,100 ^③ , 60s	10,000 ^③ , 60s
	Voltage Harmonic Distortion	< 3% @Linear Load									
Efficiency	Max. Efficiency	97.6%	97.6%	97.6%	97.6%	97.6%	97.6%	97.6%	97.6%	97.6%	97.6%
	European Efficiency	97.0%	97.0%	97.0%	97.0%	97.0%	97.0%	97.0%	97.0%	97.0%	97.0%
	Max. Battery Charging Conversion Efficiency	96.6%	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%	96.6%

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

Compliance
IEC62109、IEC62116、VDE4105、VDE0126、AS4777、RD1699、NBR16149、IEC61727、IEC60068、IEC61683、EN50549、EN61000

Country Of Manufacturer
China

- ① The grid feed in power for AS/NZS 4777.2 is limited 4.99kW & 4.99kVA & 21.7A.
 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.