

sunways

Sunways Single Phase Storage Inverter

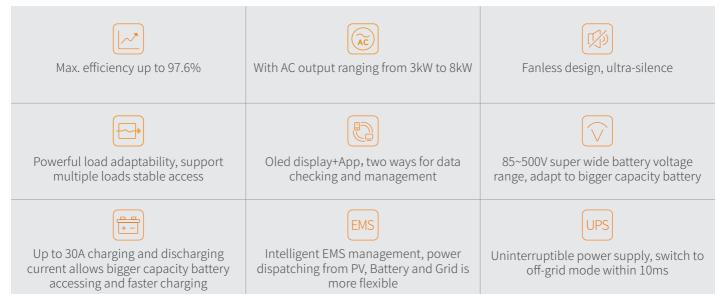
STH-3K/3.6K/4.2K/4.6K/5K/6K/7K/8KTL-HS

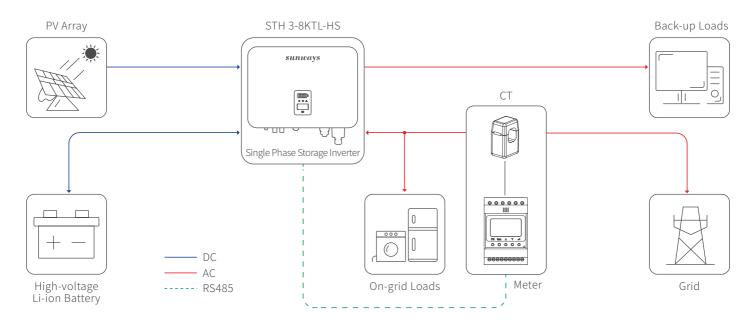
MAX 97.6% EFFICIENCY

IP65 PROTECTION

12 YEARS WARRANTY









: www.suntech-power.com.au

Model		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	
	Max. Input Power (W)	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	
	Max. DC Input Voltage (V)	600	600	600	600	600	600	600	600	
	Rated DC Input Voltage (V)	360	360	360	360	360	360	360	360	
PV Input	MPPT Voltage Range (V)	100-550	100-550	100-550	100-550	100-550	100-550	100-550	100-550	
·	No. of MPP Trackers	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	
	Max. Input Current (A)	13.5/13.5	13.5/13.5	13.5/13.5	13.5/13.5	13.5/13.5	13.5/13.5	13.5/13.5	13.5/13.5	
	Max. Short-circuit Current (A)	18/18	18/18	18/18	18/18	18/18	18/18	18/18	18/18	
	Battery Type				Lithium Batte	ery (with BMS)				
	Battery Communication Mode	CAN/RS485								
Battery	Battery Voltage Range (V)	85-500								
	Max. Charge/Discharge Current (A)				30/	/30				
	Rated Current of Built-in Fuse (A)				6	3				
	Rated Output Power (kW)	3	3.6	4.2	4.6	5/4.99 ^①	6	7	8	
	Max. Output Power (kW)	3.3	3.96	4.6	4.6	5.5/4.99 ^①	8.8	11	13.2	
	Max. Apparent Power (kVA)	3.3	3.96	4.6	4.6	5.5/4.99 ^①	8.8	11	13.2	
	Max. Input Apparent Power (kVA)	6 ^②	7.2 ^②	8.4 2	9.2 ^②	10 ^②	11 ^②	11 ²	11 ^②	
Output (Grid)	Max. Charging Power of Battery (kW)	3	3.6	4.2	4.6	5/4.99 ^①	6	7	8	
	Rated Output Voltage (V)	L/N/PE, 220/230/240V								
	Rated AC Frequency (Hz)	50/60Hz 45-55Hz/55-65Hz								
	Max. Output Current (A)	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%In						
	UPS Switching Time				< 10)ms				
	Rated Output Voltage (V)	L/N/PE, 220/230/240V								
Output	Rated AC Frequency (Hz)	50/60Hz 45-55Hz/55-65Hz								
(Back-up)	Max. Apparent Output Power (kVA)	3.3	3.96	4.6	4.6	5.5/4.99 ^①	8.8	11	13.2	
	Peak Overload Apparent Power (kVA)	6 ³ , 60s	7.2 ³ , 60s	8.4 ³ , 60s	9.2 ³ , 60s	10 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%	
	European Efficiency	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%	
	Max. Battery Discharge Conversion Efficiency	96.6%	96.6%	96.6%	96.6%	96.6%	96.6%	96.6%	96.6%	

Protection				
DC Reverse Polarity Protection	Integrated			
Battery Input Reverse Connection Protection	Integrated			
Insulation Resistance Protection	Integrated			
DC Switch	Integrated			
Surge Protection	Integrated (Type II)			
Over-temperature Protection	Integrated			
Residual Current Protection	Integrated			
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)	550W*410H*175D
Weight (kg)	26
Protection Degree	IP65
Self-consumption at Night (W)	< 15
Topology	Transformer-less
Operating Temperature Range (° C)	-30~60
Relative Humidity	0~100%
Operating Altitude (m)	4000 (derating@ > 3000)
Cooling	Natural Convection
Noise Level (dB)	< 25
Display	OLED & LED
Communication	WiFi / LAN (Optional)

Compliance

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

- ① The grid feed in power for AS/NZS 4777.2 is limited 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.

