





Max. Efficiency up to 97.6%.



With AC output ranging from 3kW to 8kW.



Powerful load adaptability, support loads stable access.



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



Wide battery voltage range allows more battery modules connection and increases self consumption rate.



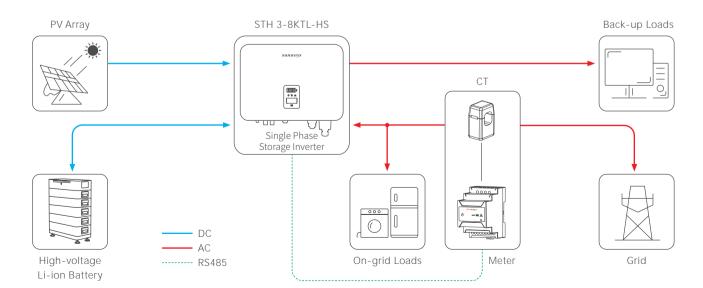
Fast charging/discharging of up to 30A to meet the demand of higher consumption and energy trading.



Up to 15A maximum PV input current allows most higher current PV panels connection and lowers the system LCOE.



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



Model	STH-3KTL -HSS	STH-3.6KTL -HSS	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)	4,800	5,760	6.720	7,360	8,000	9,600	11,200	12,800
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
MPPT Voltage Range (V)	100-550	100-550	100-550	100-550	100-550	100-550	100-550	100-550
Number of MPP Trackers	1	1	2	2	2	2	2	2
Number of DC Inputs per MPPT	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
Max. Short-circuit Current (A)	20	20	20/20	20/20	20/20	20/20	20/20	20/20
Battery								
Battery Communication Mode				CAN /	RS485			
Battery Voltage Range (V)				85-				
Max. Charge/Discharge Current (A)	30/30							
Rated Current of Built-in Fuse (A)				6				
Output(Grid)								
Rated Output Power (W)**	3,000	3,600	4,200	4,600	5,000	6,000	7,000	8,000
Max. Output Power (W)	3,300	3,960	4,600	4,600	5,500	6,600	7,700	8,000
Max. Apparent Power (VA)	3,300	3,960	4,600	4,600	5,500	6,600	7,700	8,000
Max. Input Apparent Power (VA)	6,000 [®]	7,200 [®]	8,400 [®]	9,200 [®]	10.000 ^①	12,000 ^①	12,000 [®]	12,000 [®]
Max. Charging Power of Battery (W)	3.000	3,600	4,200	4.600	5.000	6,000	7,000	8,000
Grid Type (V)**	L/N/PE, 220/230/240V							
Rated AC Frequency (Hz)	L/N/PE, 220/230/240V 50/60							
Max. Output Current (A)	15	18	21	21	25/21.7	28.7	35	36.3
Power Factor	15 18 21 21 29/21.7 28.7 35 36.3 0.8 leading0.8 lagging							
THDi @ Rated Power	<3%							
DCI	<0.5%ln							
Output(Back-up)				10.0	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Rated Output Power (W)	3.000	3,600	4,200	4,600	5.000	6,000	7,000	8.000
Max. Output Power (W)	3,300	3,960	4,600	4,600	5,500	6,600	7,700	8,000
Back-up Output Rated Apparent Power (VA)	3,000	3,600	4,200	4,600	5,000	6,000	7,000	8,000
Max. Apparent Power (VA)	3,300	3,960	4,600	4,600	5,500	6,600	7,700	8,000
Back-up Output Rated Current (A)	13	15.7	18.3	20	21.7	26.1	31.8	36.3
Max. Output Current (A)	15	18	21	21	25/21.7	28.7	35	36.3
UPS Switching Time (ms)	<10							
Grid Type (V)	L/N/PE, 220/230/240							
Rated AC Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Peak Output Apparent Power (VA)	3,900 ² , 60s	4,700 ² , 60s	5,500 ² , 60s	6,000 [®] , 60s	6,500 ² , 60s	7,800 ² , 60s	9,100 ² , 60s	10,000 ² , 60s
THDi @ Rated Power	<3%							
Efficiency								
Max. Efficiency	97.6%	97.6%	97.6%	97.6%	97.6%	97.6%	97.6%	97.6%
Euro 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

Trotection				
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

Ochcrai Data			
Over Voltage Category	PV : II; Main : III		
Dimensions [W*H*D] (mm)	550*410*175		
Weight (kg)	26		
Protection Degree	IP65		
Self-consumption at Night (W)	< 15		
Topology	Transformerless		
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)		

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.

② 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.

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