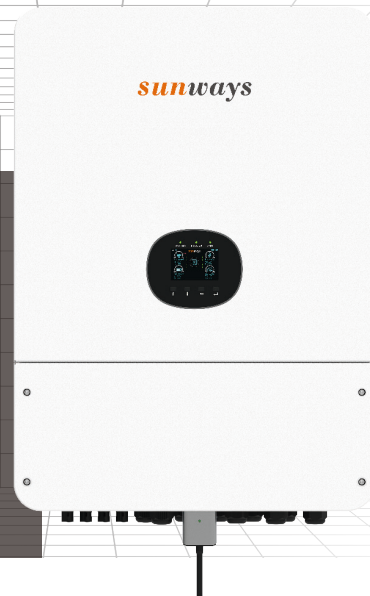


- MAX. EFFICIENCY 97.6%
- IP66 PROTECTION

STH 5~20kW

Three Phase | 4 MPPTs | Hybrid inverter (LV)



IP66
protection degree.



Support diesel generators
and charging piles.



Max. 10pcs parallel for
off-grid operation.



Fast and easy data checking
and commissioning.



Up to 430A
Continuous charging/discharging.



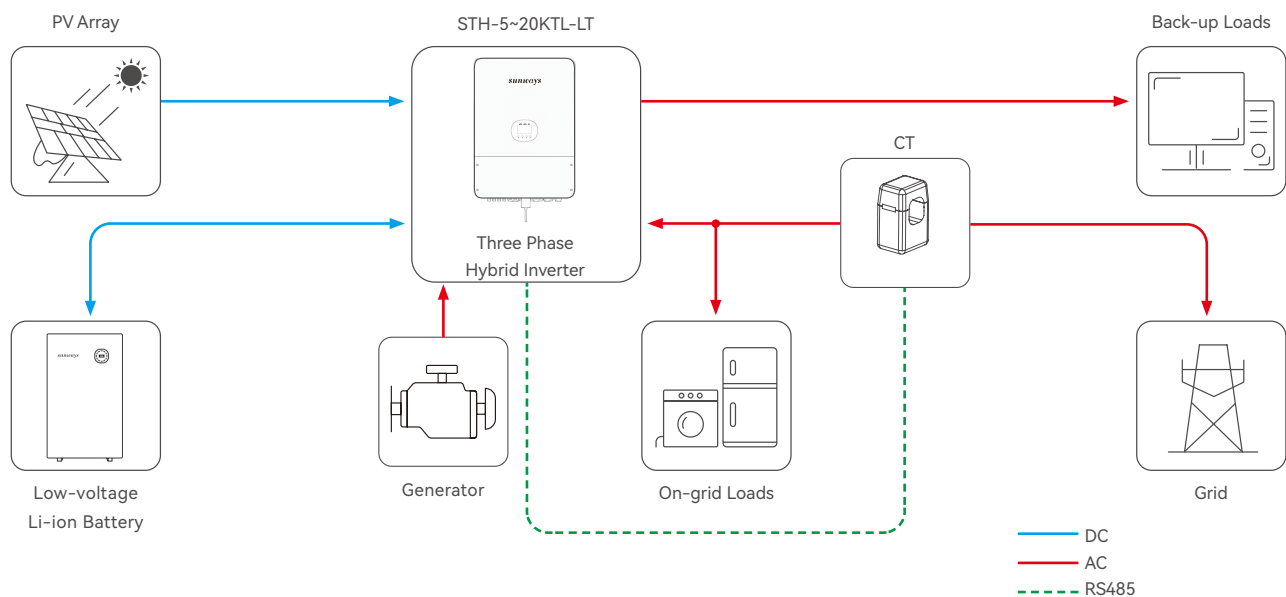
Up to 20A
maximum PV input current.



Switch to off-grid mode
within 10ms.



Powering inductive & capacitive
backup load 2 times rated current.



Model	STH-5KTL-LT	STH-6KTL-LT	STH-8KTL-LT	STH-10KTL-LT	STH-12KTL-LT	STH-15KTL-LT	STH-20KTL-LT
PV Input							
Max. Input Power (W)	10,000	12,000	16,000	20,000	24,000	30,000	40,000
Starting Voltage (V)	130	130	130	130	130	130	130
Max. DC Input Voltage (V)	1000	1000	1000	1000	1000	1000	1000
Rated DC Input Voltage (V)	600	600	600	600	600	600	600
MPPT Voltage Range (V)	160-850	160-850	160-850	160-850	160-850	160-850	160-850
No. of MPP Trackers	2	2	3	3	4	4	4
No. of DC Inputs per MPPT	1/1	1/1	1/1/1	1/1/1	1/1/1/1	1/1/1/1	1/1/1/1
Max. Input Current (A)	20/20	20/20	20/20/20	20/20/20	20/20/20/20	20/20/20/20	20/20/20/20
Max. Short-circuit Current (A)	30/30	30/30	30/30/30	30/30/30	30/30/30/30	30/30/30/30	30/30/30/30
Battery							
Battery Type	Lithium battery / Lead-acid battery						
Battery Communication Mode	CAN						
Number of Battery Inputs	1	1	1	1	2	2	2
Battery Voltage Range (V)	40-60	40-60	40-60	40-60	40-60	40-60	40-60
Max. Charge/Discharge Current (A)	120	140	180	215	140/140	160/160	215/215
AC Input and Output (On-grid)							
Rated Output Power (W)**	5,000	6,000	8,000	10,000	12,000	15,000	20,000
Max. Output Apparent Power (VA)	5,500	6,600	8,800	11,000	13,200	16,500	22,000
Max. Input Apparent Power (VA)	7,500	9,000	12,000	15,000	18,000	22,500	30,000
Rated Output Voltage (V)**	3L/N/PE, 220/230 , 380/400						
Rated AC Frequency (Hz)	50/60						
Max. Output Current (A)	8.3	10	13.4	16.7	20	25	33.4
Power Factor	> 0.99 (0.8 leading ...0.8 lagging)						
Max. Total Harmonic Distortion	<3% @Rated Output Power						
Output (Back-up)							
Rated Output Power (W)	5,000	6,000	8,000	10,000	12,000	15,000	20,000
Max. Output Apparent Power (VA)	5,500	6,600	8,800	11,000	13,200	165,00	22,000
Max. Output Current (A)	8.3	10	13.4	16.7	20	25	33.4
Max. Bypass Current(Grid to Backup Load) (A)	11.4	13.6	18.2	22.7	27.3	34	45
UPS Switching Time	<10ms						
Rated Output Voltage (V)	3L/N/PE, 380/400						
Rated AC Frequency (Hz)	50/60						
Peak Output Apparent Power (VA)	10,000 ^① VA, 10s	12,000 ^① VA, 10s	16,000 ^① VA, 10s	20,000 ^① VA, 10s	24,000 ^① VA, 10s	30,000 ^① VA, 10s	40,000 ^① VA, 10s
Efficiency							
Max. Efficiency	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%
Max. Charging and Discharging Efficiency	95%	95%	95%	95%	95%	95%	95%
Protection							
PV Reverse Polarity Protection	Integrated						
Insulation Resistance Protection	Integrated						
DC Switch	Integrated						
AFCI	Optional						
Surge Protection	Integrated						
Over-temperature Protection	Integrated						
Residual Current Protection	Integrated						
Islanding Protection	Integrated						
AC Over-voltage Protection	Integrated						
Overload Protection	Integrated						
AC Short-circuit Protection	Integrated						
General Data							
Over Voltage Category	DC : II ; AC : III						
Dimensions (mm)	782*572*219						
Weight (KG)	38						
Protection Degree	IP66						
Topology(Solar/Battery)	Transformerless / High-frequency isolation						
Operating Temperature Range (°C)	-25~60 (> 45°C derating)						
Relative Humidity (%)	0~100						
Operating Altitude (m)	3000						
Cooling	Intelligent Air Cooling						
Noise Level (dB)	<50						
Display	LCD						
Communication	RS485/LAN/Bluetooth/WiFi,4G(Optional)						

① 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.

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