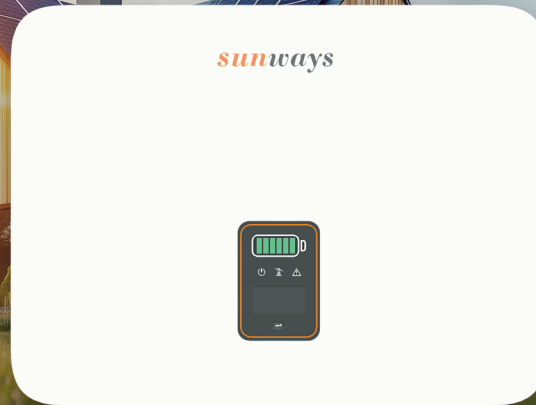


HYBRID INVERTER (HV)

- MAX. EFFICIENCY 98.2%
- IP65 PROTECTION

STH 4~12kW

Three Phase | 2 MPPTs | Hybrid Inverter (HV)



Max. Efficiency up to 98.2%.



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



Powerful load adaptability, support loads stable access.



Oled display+App, two ways for data checking and management.



140~750V wide battery connection range to store more energy and optimize self-sufficiency rate.



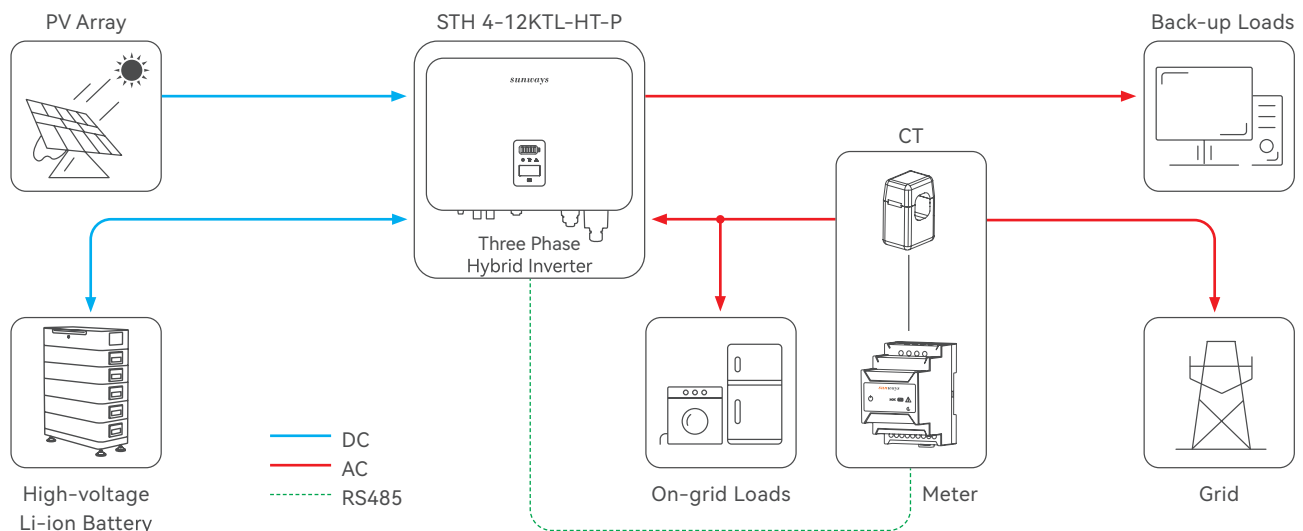
Arbitrary phase of back-up output allows up to 125% overloading ability.



Maximum 200% back-up output overloading @60s.



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



Model		STH-4KTL-HT-P	STH-5KTL-HT-P	STH-6KTL-HT-P	STH-8KTL-HT-P	STH-10KTL-HT-P	STH-12KTL-HT-P
PV Input	Max. Input Power (W)	6,400	8,000	9,600	12,800	16,000	19,200
	Start-up Voltage (V)	150	150	180	180	180	180
	Max. DC Input Voltage (V)	1,000	1,000	1,000	1,000	1,000	1,000
	Rated DC Input Voltage (V)	620	620	620	620	620	620
	MPPT Voltage Range (V)	150-850	150-850	200-850	200-850	200-850	200-850
	Number of MPP Trackers	2	2	2	2	2	2
	Number of PV Inputs	1	1	1	1	1	1
	Max. Input Current (A)	16/16 ^①	16/16 ^①	16/16 ^①	16/16 ^①	16/16 ^①	16/16 ^①
	Max. Short-circuit Current (A)	18/18	18/18	18/18	18/18	18/18	18/18
Battery	Battery Type	Lithium Battery (with BMS)					
	Battery Communication Mode	CAN / RS485					
	Battery Voltage Range (V)	140-750					
	Max. Charge/Discharge Current (A)	25/25					
	Rated Current of Built-in Fuse (A)	63					
Output (Grid)	Rated Output Power (W)	4,000	5,000	6,000	8,000	10,000	12,000
	Max. Output Power (W)	4,400	5,500	6,600	8,800	11,000	13,200
	Rated Apparent Power (VA)	4,000	5,000	6,000	8,000	10,000	12,000
	Max. Apparent Power (VA)	4,400	5,500	6,600	8,800	11,000	13,200
	Max. Input Apparent Power (VA)	8,000	10,000	12,000	16,000	16,500	16,500
	Max. Charging Power of Battery (W)	4,000	5,000	6,000	8,000	10,000	12,000
	Grid Type	3L/N/PE, 230/400V					
	Rated AC Frequency (Hz)	50/60 45-55/55-65					
	AC Output Rated Current(A)	5.8	7.3	8.7	11.6	14.5	17.4
	Max. Output Current (A)	6.7	8.3	10	13.3	16.5	20
	Power Factor	0.8 leading...0.8 lagging					
	THDi @ Rated Power	<3%					
	DCI	< 0.5%In					
Output (Back-up)	UPS Switching Time (ms)	< 10					
	Grid Type	3L/N/PE, 230/400V					
	Rated AC Frequency (Hz)	50/60 45-55/55-65					
	Rated Output Power (W)	4000	5000	6000	8000	10000	12000
	Max. Output Power (W)	4400	5500	6600	8800	11000	13200
	Rated Apparent Power (VA)	4000	5000	6000	8000	10000	12000
	Max. Apparent Power (VA)	4,400	5,500	6,600	8,800	11,000	13,200
	Peak Output Apparent Power (VA)	8,000, 60s	10,000, 60s	12,000, 60s	16,000, 60s	20,000, 60s	20,000, 60s
	Peak Output Apparent Power/per Phase (VA)	1,600	2,100	2,600	3,300	4,000	5,000
	THDi @ Rated Power	< 3%					
Efficiency	Max. Efficiency	98.1%	98.1%	98.1%	98.2%	98.2%	98.2%
	Euro Efficiency	97.3%	97.3%	97.3%	97.4%	97.4%	97.4%
	Max. Battery Charging Conversion Efficiency	97.2%	97.2%	97.2%	97.3%	97.3%	97.3%
	Max. Battery Discharge Conversion Efficiency	97.2%	97.2%	97.2%	97.3%	97.3%	97.3%

Protection	
DC Reverse Polarity Protection	Integrated
Battery Input Reverse Connection Protection	Integrated
Insulation Resistance Detection	Integrated
DC Switch	Integrated
Surge Protection	Integrated
Over-temperature Protection	Integrated
Residual Current Protection	Integrated
Anti-islanding Protection	Integrated, frequency shift
AC Over-voltage Protection	Integrated
Overload Protection	Integrated
AC Short-circuit Protection	Integrated
Protective Class	Class I
Overvoltage category	III[AC];II[PV];II[BATTERY]

General Data	
Dimensions [W*H*D] (mm)	550*410*175
Weight (kg)	28
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)
Country of manufacture	China