







Max.efficiency up to 98.2%



Up to110% phase unbalanced output available on both on-grid and back-up outputs.



Support back-up paralleling connection of up to 10 units.



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.



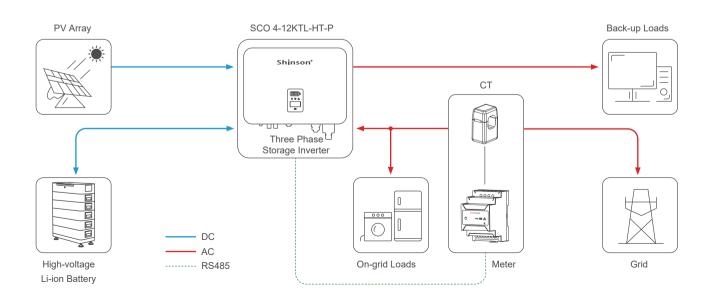
Arbitrary phase of back-up output allows up to 125% overloading ability.



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



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



	Model	SCO-4KTL- HT-P	SCO-5KTL- HT-P	SCO-6KTL- HT-P	SCO-8KTL- HT-P	SCO-10KTL- HT-P	SCO-12KTL- HT-P
	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
PV Input	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 Type			Lithium Bat	tery (with BMS)		
	Battery Communication Mode			CAN /	RS485		
Battery	Battery Voltage Range (V)			140-	-750		
	Max. Charge/Discharge Current (A)			25	/25		
	Rated Current of Built-in Fuse (A)			6	3		
	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
	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
Output (Grid)	Rated Output Voltage (V)	3L/N/PE, 230/400V					
(Ona)	Rated AC Frequency (Hz)			50/60Hz 45-5	55Hz/55-65Hz		
	Max. Output Current (A)	6.7	8.3	10	13.3	16.5	20
	Power Factor	0.8 leading0.8 lagging					
	Max. Total Harmonic Distortion	< 3% @Rated Output Power					
	DCI			< 0.	5%In		
	UPS Switching Time			< 1	0ms		
	Rated Output Voltage (V)			3L/N/PE,	230/400V		
	Rated AC Frequency (Hz)			50/60Hz 45-5	55Hz/55-65Hz		
Output (Back-up)	Max. Apparent Power (VA)	4,400	5,500	6,600	8,800	11,000	13,200
(васк-ир)	Peak output apparent power (VA)	8,000 ³ , 60s	10,000 ³ , 60s	12,000 [®] , 60s	16,000 [®] , 60s	20,000 [®] , 60s	20,000 [®] , 60s
	Peak Output Apparent Power/per Phase (VA)	1,600 ^④	2,100 ^④	2,600 ^④	3,300 ^④	4,000 ^④	5,000 [®]
	Voltage Harmonic Distortion	< 3% @Linear Load					
	Max. Efficiency	98.1%	98.1%	98.1%	98.2%	98.2%	98.2%
Efficiency	European Efficiency	97.3%	97.3%	97.3%	97.4%	97.4%	97.4%
Eπiciency	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 Protection	Integrated			
DC Switch	Optional			
Surge Protection	Integrated			
Over-temperature Protection	Integrated			
Residual Current Protection	Integrated			
Anti-islanding Protection	Frequency Shift, Integrated			
AC Over-voltage Protection	Integrated			
Overload Protection	Integrated			
AC Short-circuit Protection	Integrated			

General Data				
Dimensions (mm)	550W*410H*175D			
Weight (kg)	26~28			
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

 $\begin{tabular}{l} \textbf{IEC62109}, \textbf{EN61000}, \textbf{C10/C11}, \textbf{VDE} \textbf{4105}, \textbf{UNE217001}, \textbf{UNE217002}, \textbf{RD647}, \textbf{RD1699}, \textbf{CEI021}, \textbf{G99}, \textbf{EN62477}, \textbf{NRS097-2-1}, \textbf{EN50549}, \textbf{NRS097-2-1}, \textbf{UE2016/631}, \textbf{TOR} \begin{tabular}{l} \textbf{Erzeuger} \textbf{Type} \textbf{A}, \textbf{OVE-Richitlinie} \textbf{R} \textbf{25} \end{tabular} \end{tabular}$

- ① STH-4K~12KTL-HT series maximum input current per string is 13A, products deliver upon the order.
- 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 wll exceed the rated value only when the power in the PY array is sufficient, and the duration of the overload is relating to the overload power.
- 4 Only one of the three phases can reach up to 1.25 times, and the other two phases should be less than 1.1.