

Single Phase Hybrid Inverter with Two MPPT

SCO-3-10KTL-LS

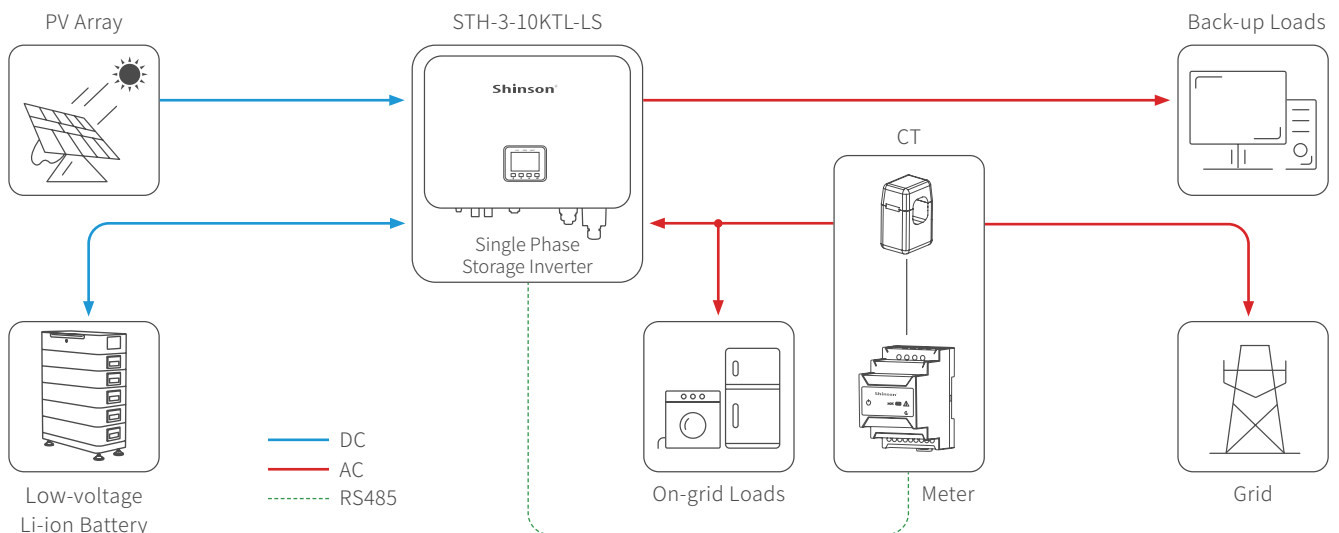


MAX97.6% EFFICIENCY

IP65 PROTECTION

LOW VOLTAGE

- Max. efficiency up to 97.6%
- With AC output ranging from 3kW to 10kW
- Powerful load adaptability, support multiple loads stable access
- Fast and easy data checking and commissioning via App or OLED display
- Fast charging/discharging of up to 100A to meet the demand of higher consumption and energy trading.
- Up to 16A 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
- Friendly & Thoughtful Design: Easy installation, Elegant and compact design



Model		SCO-3KTL-LSS	SCO-3.6KT-L-LS	SCO-4.2KTL-LS	SCO-4.6KTL-LS	SCO-5KTL-LS	SCO-6KTL-LS	SCO-7KTL-LS	SCO-8KTL-LS	SCO-10KTL-LS	
PV Input	Start-up Voltage (V)	80	80	80	80	80	80	125	125	125	
	Max. DC Input Voltage (V)	600	600	600	600	600	600	600	600	600	
	Rated DC Input Voltage (V)	360	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	100-550	
	No. of MPP Trackers	1	2	2	2	2	2	2	2	2	
	No. of DC Inputs per MPPT	1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	
	Max. Input Current (A)	18/18	18/18	18/18	18/18	18/18	18/18	18/18	18/18	18/18	18/18
	Max. Short-circuit Current (A)	22/22	22/22	22/22	22/22	22/22	22/22	22/22	22/22	22/22	22/22
Battery	Battery Type	Lithium battery (with BMS)									
	Battery Communication Mode	CAN / RS485									
	Battery Voltage Range (V)	42-58									
	Max. Charge/Discharge Current (A)	100/100									
	Rated Current Of Built-in Fuse (A)	150									
Output (Grid)	Rated Output Power (W)	3,000	3,600	4,200	4,600	5,000/4,990 ^①	6,000	7,000	8,000	10,000	
	Max. Output Power (W)	3,300	3,960	4,600	4,600	5,500/4,990 ^①	6,600	7,700	8,800	11,000	
	AC output rated apparent power (VA)	3,000	3,600	4,200	4,600	5,000/4,990 ^①	6,000	7,000	8,000	10,000	
	Max. Apparent Power (VA)	3,300	3,960	4,600	4,600	5,500/4,990 ^①	6,600	7,700	8,800	11,000	
	Max. Input Apparent Power (VA)	6,000 ^②	7,200 ^②	8,400 ^②	9,200 ^②	10,000 ^②	12,000 ^②	12,000 ^②	12,000 ^②	12,000 ^②	
	Rated Output Voltage (V)	L/N/PE, 220/230/240V									
	Rated AC Frequency (Hz)	50/60									
	AC output rated current (A)	13	15.7	18.3	20	21.7	26.1	31.8	36.3	45.5	
	Max. Output Current (A)	15	18	21	21	25/21.7 ^①	28.7	35	40	50	
	The measured Inrush current (A)	8.8A@28μs	8.8A@28μs	8.8A@28μs	8.8A@28μs	8.8A@28μs	25A@22μs	25A@22μs	25A@22μs	25A@22μs	
	Maximum output fault current (A)	50	50	50	50	50	80	80	80	80	
	Maximum output overcurrent protection (A)	50	50	50	50	50	80	80	80	80	
	Power Factor	0.8 leading ...0.8 lagging									
	Max. Total Harmonic Distortion	<3% @Rated Output Power									
	DCI	<0.5%In									
Output (Back-up)	Rated Output Power (W)	3,000	3,600	4,200	4,600	5,000/4,990 ^①	6,000	7,000	8,000	10,000	
	Max. Output Power (W)	3,300	3,960	4,600	4,600	5,500/4,990 ^①	6,600	7,700	8,800	11,000	
	Back-up output rated apparent power (VA)	3,000	3,600	4,200	4,600	5,000/4,990 ^①	6,000	7,000	8,000	10,000	
	Max. Apparent Power (VA)	3,300	3,960	4,600	4,600	5,500/4,990 ^①	6,600	7,700	8,800	11,000	
	Back-up output rated current (A)	13	15.7	18.3	20	21.7	26.1	31.8	36.3	45.5	
	Max. Output Current (A)	15	18	21	21	25/21.7 ^①	28.7	35	40	50	
	UPS switching time	<10ms	<10ms	<10ms	<10ms	<10ms	<10ms	<10ms	<10ms	<10ms	
	Rated Output Voltage (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	50/60	
	Peak output apparent power (VA)	3,900 ^③ , 60s	4,700 ^③ , 60s	5,500 ^③ , 60s	6,000 ^③ , 60s	6,500 ^③ , 60s	7,800 ^③ , 60s	9,100 ^③ , 60s	10,000 ^③ , 60s	10,000 ^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%	97.6%	
	European Efficiency	97.0%	97.0%	97.0%	97.0%	97.0%	97.0%	97.0%	97.0%	97.0%	
	Battery Charged by PV Max. Efficiency	98.0%	98.0%	98.0%	98.0%	98.0%	98.0%	98.0%	98.0%	98.0%	
	Battery Charged by AC Max. Efficiency	96.6%	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%	96.6%	

Protection		General Data	
DC Reverse Polarity Protection	Integrated	Dimensions (mm)	550W*410H*175D
Battery Input Reverse Connection Protection	Integrated	Weight (kg)	26
Insulation Resistance Protection	Integrated	Protection Degree	IP65
DC Switch	Optional	Self-consumption at Night (W)	< 15
Surge Protection	Integrated	Topology	Transformer less
Over-temperature Protection	Integrated	Operating Temperature Range (° C)	-30~60
Residual Current Protection	Integrated	Relative Humidity (%)	0~100
Anti-islanding Protection	Frequency Shift, Integrated	Operating Altitude (m)	4000 (derating@ > 3000)
AC Over-voltage Protection	Integrated	Cooling	Natural Convection
Overload Protection	Integrated	Noise Level (dB)	< 25
AC Short-circuit Protection	Integrated	Display	TFT3.5 LCD/ OLED
		Communication	WiFi/GPRS/LAN(Optional)

Compliance

IEC62109, EN61000, C10/C11, VDE 4105, UNE217001, UNE217002, RD647, RD1699, CEI021, G99, NRS097-2

- ① The grid feed in power for AS/NZS 4777.2 is limited 4.99kW & 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.