

sunways









Sunways Three Phase AC-coupled Inverter with Two MPPT

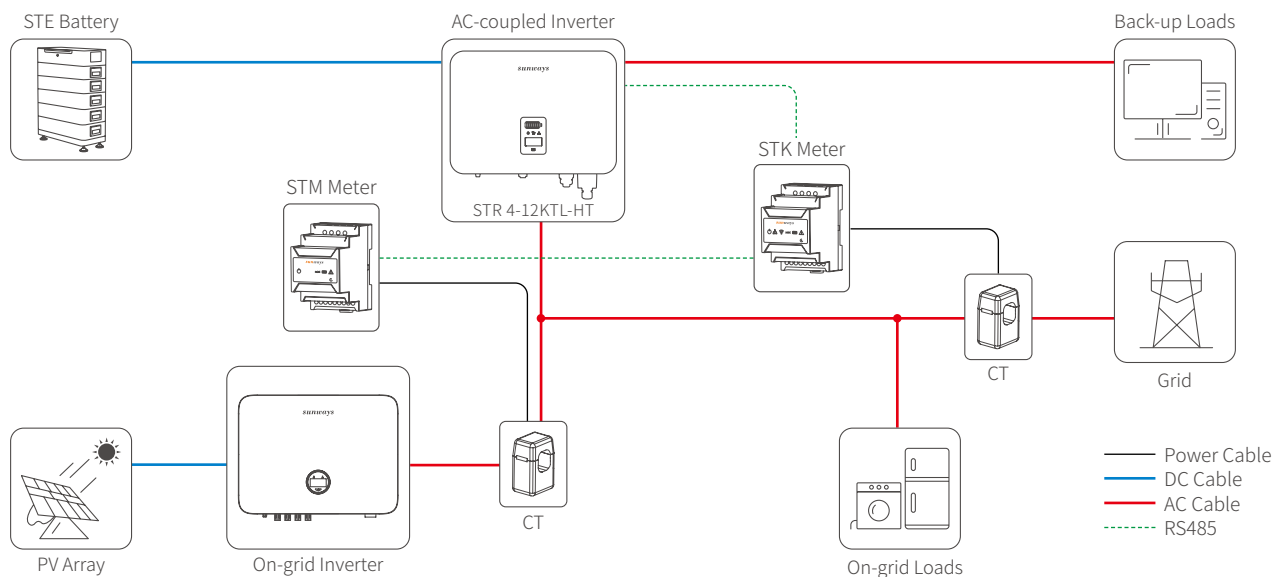
STR-4K~12KTL-HT



MAX 97.3% EFFICIENCY

IP65 PROTECTION

 Max. efficiency up to 97.3%	 Up to 110% phase unbalanced output available on both on-grid and back-up outputs.	 Support back-up paralleling connection of up to 10 units.	 Fast and easy data checking and commissioning via App or OLED display
 135~750V 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		STR-4KTL-HT	STR-5KTL-HT	STR-6KTL-HT	STR-8KTL-HT	STR-10KTL-HT	STR-12KTL-HT
Battery	Battery Type	Lithium battery (with BMS)					
	Battery communication mode	CAN / RS485					
	Battery voltage range (V)	135-750	135-750	135-750	135-750	135-750	135-750
	Maximum charging current (A)	25	25	25	25	25	25
	Maximum discharge current (A)	25	25	25	25	25	25
	Rated current of built-in fuse (A)	63	63	63	63	63	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
	AC output 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 ^①	10,000 ^①	12,000 ^①	16,000 ^①	16,500 ^①	16,500 ^①
	Rated Output Voltage (V)	3L/N/PE, 230 (400)					
	Rated AC Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60
	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					
	Max. total harmonic distortion	<3% @Rated Output Power					
	DCI	<0.5%In	<0.5%In	<0.5%In	<0.5%In	<0.5%In	<0.5%In
	Output (Back-up)	Rated Output Power (W)	4,000	5,000	6,000	8,000	10,000
Max. Output Power (W)		4,400	5,500	6,600	8,800	11,000	13,200
Back-up output 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
Back-up 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
UPS switching time		<10ms	<10ms	<10ms	<10ms	<10ms	<10ms
Rated Output Voltage (V)		3L/N/PE, 230 (400)					
Rated AC Frequency (Hz)		50/60	50/60	50/60	50/60	50/60	50/60
Peak output apparent power (VA)		8,000 ^② , 60s	10,000 ^② , 60s	12,000 ^② , 60s	16,000 ^② , 60s	20,000 ^② , 60s	20,000 ^② , 60s
Voltage harmonic distortion		<3% @Linear load					
Efficiency	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	
Battery input reverse connection protection	Integrated
Insulation Resistance Protection	Integrated
Surge Protection	Integrated
Over-temperature Protection	Integrated
Residual Current Protection	Integrated
Islanding protection	Frequency shift, Integrated
AC Over-voltage Protection	Integrated
Overload protection	Integrated
AC Short-circuit Protection	Integrated

General Data	
Over voltage category	Main: III
Dimensions (mm)	550*410*175
Weight (KG)	23
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)	3000
Cooling	Natural Convection
Noise Level (dB)	<25
Display	OLED & LED
Communication	WiFi/LAN (Optional)

Compliance
IEC62109、IEC62116、VDE 4105、VDE 0126、AS4777、RD1699、NBR16149、IEC61727、IEC60068、IEC61683、EN50549、EN61000

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.