

- MAX. EFFICIENCY 98.2%
- IP54 PROTECTION

STA 4-12kW



10ms conversion time to UPS mode



Max 13.2kW AC output



Wiring pretreatment



Scalable battery capacity

Model		STA-4KTL-HT	STA-5KTL-HT	STA-6KTL-HT	STA-8KTL-HT	STA-10KTL-HT	STA-12KTL-HT
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	16/16	16/16	16/16	16/16	16/16
	Max. Short-circuit Current (A)	18/18	18/18	18/18	18/18	18/18	18/18
Battery	Nominal Capacity of per module (kWh)	2.56					
	Nominal Capacity (Ah)	50					
	Nominal Voltage of per module (V)	51.2					
	Max. Charge/Discharge Current (A)	25/25					
	Number of Battery Modules Supported	3-8					
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
	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					
	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					
	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	Optional
Surge Protection	Integrated
Over-temperature Protection	Integrated
Residual Current Protection	Integrated
Anti-islanding Protection	Integrated
AC Over-voltage Protection	Integrated
Overload Protection	Integrated
AC Short-circuit Protection	Integrated

General Data	
Dimensions [W*H*D] (mm)	696x(1134~2019)x315
Weight (kg)	105~270
Protection Degree	IP54
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)