

STELTEC

Make your home
Safe, stable and smart

Hybrid Inverter Three Phase Series

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Optimal Power & Storage

- Three Phase output, 98.2%/98.4% Max. Efficiency
- 15A/30A PV input current, 2 MPP trackers
- 110% Unbalanced Output

Strong Load & Back-up

- 110% continuous AC output overloading
- 200% max. back-up output overloading @60s
- 10ms UPS-level switching
- 150% DC oversizing

Convenient Installation & Operation

- Plug & Play terminals for easy wiring
- OLED display and App for setting and data management
- WIFI configuration via App

Flexible Design & Use

- 135-750V wide battery voltage range
- IP65 for indoor and outdoor installation
- Support paralleling up to 10 devices
- Compact size and elegant appearance

Model		STE-THT-8K	STE-THT-10K	STE-THF-12K	STE-THF-15K
PV Input					
Recommended Max. input power	[kW]	12.0	15.0	18.0	22.5
Start-up voltage	[V]	135	135	135	135
Max. DC input voltage*	[V]	1000*	1000*	1000*	1000*
Rated DC input voltage	[V]	620	620	620	620
MPPT voltage range*	[V]	200-950*	200-950*	200-950*	200-950*
No. of MPP trackers		2	2	2	2
No. of DC inputs per MPPT		1/1	1/1	2/2	2/2
Max. input current	[A]	15/15	15/15	30/30	30/30
Max. short-circuit current	[A]	20/20	20/20	40/40	40/40
Battery Side					
Battery type		Lithium Battery (with BMS)			
Battery voltage range	[V]	135-750			
Maximum charging/discharge current	[A]	25/25		40/40	
Grid Side					
Rated output power	[KW]	8.0	10.0	12.0	15.0
Max. output apparent power	[KVA]	8.8	11.0 ¹⁾	13.2	16.5 ³⁾
Max. input apparent power**	[KVA]	16.0	16.5	24.0	30.0
Max. charging power of battery	[KW]	8.0	10.0	12.0	15.0
Rated AC voltage		3L/N/PE; 220/380V;230/400V;240/415V			
Rated AC frequency	[Hz]	50/60	50/60	50/60	50/60
Max. output current	[A]	13.3	16.5 ²⁾	20.0	25.0 ⁴⁾
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
Back-up Side					
Rated output power	[KW]	8.0	10.0	12.0	15.0
Max. output apparent power	[KVA]	8.8	11.0	13.2	16.5
Max. output current	[A]	13.3	16.5	20.0	25.0
UPS switching time		<10ms	<10ms	<10ms	<10ms
Rated output voltage		3L/N/PE; 220/380V;230/400V;240/415V			
Rated output frequency	[Hz]	50/60	50/60	50/60	50/60
Voltage harmonic distortion		<3% @Linear load			
Efficiency					
Max. efficiency		98.2%	98.2%	98.4%	98.4%
European efficiency		97.4%	97.4%	97.5%	97.5%
Protection					
DC reverse polarity protection		Integrated			
Battery input reverse connection protection		Integrated			
Insulation resistance protection		Integrated			
Surge protection		Integrated			
Over- temperature protection		Integrated			
Residual current protection		Integrated			
Islanding protection		Integrated			
AC over- voltage protection		Integrated			
Overload protection		Integrated			
AC short- circuit protection		Integrated			
General Data					
Over voltage category		PV: II Main: III			
Dimensions	[W×H×D mm]	534×418×210			
Weight	[KG]	26.0	26.0	28.0	31.0
Protection degree		IP65			
Standby self- consumption	[W]	<15			
Topology		Transformerless			
Operating Temperature Range	[°C]	-30-60			
Relative Humidity	[%]	0-100			
Operating Altitude	[m]	3000 (>3000m derating)			
Cooling		Natural Convention		Smart fan	
Noise Level	[dB]	<25		<40	
Display		OLED & LED			
Communication		CAN, RS485, WiFi			

* PV Max. Input voltage is 950V without battery, or 850V with battery, otherwise inverter will be waiting;

** 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;

1) G98: 10.5kVA; 2) G98: 16.00A; 3) AS 4777.2: 15.0kVA; 4) AS 4777.2: 21.7A