

STELTEC

Make your home
Safe, stable and smart

Hybrid Inverter Single Phase Series

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High Yield

- Max efficiency 97.3%, Battery efficiency 94%
- Max. Charge/Discharge Current 120A
- Reasonable energy control to increase the proportion of spontaneous use

Intelligent maintenance

- Compatible with lithium battery
- Remote configuration and upgrade

High Reliability

- With BMS system to ensure high battery life
- Natural cooling design

Model	STE-INV-HB4600	STE-INV-HB5000	STE-INV-HB6000
Technical specification			
Efficiency			
Max. efficiency (PV to AC)	97.3%		
Max. efficiency (AC to BAT)	94.0%		
Input (PV)			
Max. PV power (W)	9000		
Max. PV voltage (V)	550		
Max. input current (A)	15/15		
Max. short current (A)	20/20		
Startup voltage (V)	90		
MPPT voltage range @full load (V)	200-480	200-480	230-480
No. of MPPT trackers	2		
String per MPPT tracker	1		
Input (BAT)			
Compatible battery type	Lithium		
Normal battery voltage (V)	48		
Battery voltage range (V)	40-60		
Lithium battery charge curve	Self-adaption to BMS		
Max. charge/discharge current (A)	120/120		
Max. charge/discharge power (W)	6000/6000		
Output (Grid)			
Nominal AC output power (W)	4600	5000	6000
Max. AC output apparent power (VA)	4600	5500	6000
Max. AC output power (PF=1) (W)	4600	5500	6000
Max. AC output current (A)	22	25	27.2
Rated AC voltage (V)	220		
AC voltage range (V)	150-300(adjustable)		
Rated AC frequency (Hz)	50/60		
AC frequency range (Hz)	45-55/55-65(adjustable)		
Grid connection	Single phase		
Power factor	>0.99@rated power(adjustable 0.8LG-0.8LD)		
THDI	<3%		
Output (Back up)			
Nominal output voltage (V)	230		
Nominal output frequency (Hz)	50/60		
Transfer time (ms)	10(type)/20(max.)		
THDV	<3%@100%R load		
Nominal output power (W)	4600	5000	6000
Nominal output current (A)	20	21.7	26
Protection			
Protection category	Class I		
AC overcurrent protection	Support		
AC short circuit protection	Support		
Leakage current protection	Support		
AC overvoltage category	III		
PV overvoltage category	II		
Surge Arrester	DC Type III; AC Type III		
PV switch	Support		
Anti-islanding protection	Support (Frequency shift)		
DC reverse detection	Support		
Insulation detection	Support		
General			
Topology	Transferless		
Max. operation altitude (m)	4000		
Ingress protection degree	IP65		
Operating temperature range(°C)	-25-60		
Noise emission (dB)	<35		
Weight (kg)	25		
Relative humidity (%)	0-100		
Cooling concept	Natural		
Mounting	Wall bracket		
Dimensions (W*H*D)	(515*487*175)mm		
PV connection way	MC4/H4		
Battery connection way	Dedicated DC connector		
AC connection way (Grid & back up)	Dedicated AC connector		
Display & Communication			
Display	LED+APP		
Communication interface	BMS (CAN/RS485)/WiFi/DRMs/Meter (RS485)/USB		
Certification			
Grid	EN50549, CEIO-21, G99, VDE4105, AS4777, UNE217001/217002, NTS631, RD1699, RD647 and so on..		
Safety	IEC62109-1&2; IEC62477-1; IEC62040-1		
EMC	IEC61000-6-1/2/3/4		
Warranty(Years)	5		

Remarks : The range of output voltage and frequency may vary depending upon different grid codes. Specifications are subject to change without advance notice.