

3-6 kW

Hengtong Energy Storage All-in-One is specially designed for residential, small commercial, and industrial applications. It features a compact size, high efficiency, multiple protection functions, safety, reliability, intelligent stability, and a high protection level of up to IP65. It exhibits strong adaptability to various environmental conditions.



HELIOS HS6K

Residential Single-Phase Hybrid Inverter

Millisecond-level switching between grid-connected and off-grid modes, supporting seamless and uninterrupted intelligent switching.

Protection level up to IP65, wall-mounted design, space-saving.

Operates worry-free at high altitudes or in harsh conditions such as severe cold, ensuring stable and reliable performance.

Two charging modes available: photovoltaic and grid power.

Residential Smart Energy Management Terminal.

One-piece molding process, lightweight design.



SiC Technology
98% Efficiency



Max. Input Current 18A
1.8 Times PV Array Input



IP65 Protection



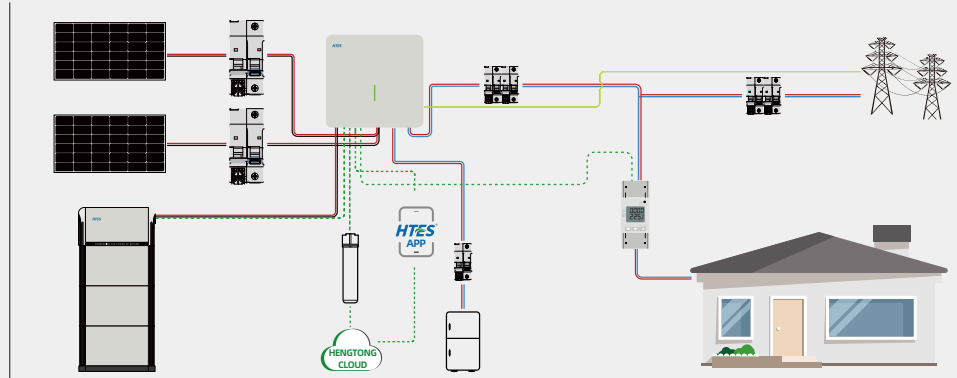
6 Units Parallel



<10ms On/off-grid
Switchover



Natural Cooling
(noise < 25dB)



	Model Name	HT-HBI-S3SH V1	HT-HBI-S3.6SH V1	HT-HBI-S4SH V1	HT-HBI-S4.6SH V1	HT-HBI-S5SH V1	HT-HBI-S6SH V1
Off-grid Output	Nominal Output Power	3000W	3600W	4000W	4600W	5000W	6000W
	Nominal Voltage	220V/230V/240V					
	Nominal Frequency	50/60Hz					
	Nominal Output Current	13.6A	16.4A	18.2A	20.8A	22.7A	27.2A
	Output THDu	<2%					
On-grid Parameter	Nominal Output Power	3000W	3600W	4000W	4600W	5000W	6000W
	Max. Output Current	13.6A	16.4A	18.2A	20.8A	22.7A	27.2A
	Nominal Grid Voltage	220V/230V/240V					
	Max. loutput Current from Grid	16.4A	22.7A		27.2A		
	Grid Voltage Range	184-264V					
	Frequency Range	45-65Hz					
PV Input	Max.Input Power	6000Wp	7200Wp		8000Wp		9000Wp
	Starting Voltage	95V					
	Max.Input Voltage	600V					
	MPPT Voltage Range	80-550V					
	Full Load MPPT Voltage Range	350-500V					
	Number of MPPT	2					
	Max.Input String Per MPPT	1					
	Nominal Input Voltage	360V					
Max.Input Current	18A/18A						
Efficiency	Max. Efficiency	97.5%		97.8%		98.0%	
	European Efficiency	97.2%		97.3%		97.5%	
	Max. Battery Charging/Discharging Efficiency	95.2%					
General Data	Size(W*H*D)	500mm*470mm*180mm					
	Weight	21kg					
	Noise	<25dB(A)					
	Operating Temperature Range	-25°C~+60°C					
	Cooling Method	Natural cooling					
	Ingress Protection Grade	IP65					
	Mornitoring	APP/LED/WIFI/4G/Bluetooth					
	Communication Port	RS485/CAN/DRED/Dry contact/Parallel port					
Protection	DC Switch:PV Insulation Resistance Detection;residual current monitoring;Anti-islanding protection;AC Short circuit protection;AC Overvoltage and overload protection;AC Overvoltage protection:LEVEL III; PV&Battery:LEVEL II ;Surge protection;Lightning protection;Reverse polarity protection(PV&Battery)						
Certification	CE_LVD	IEC 62109-1,IEC 62109-2,EN 62109-1, EN 62109-2					
	CE EMC	EN61000-6-1,EN61000-6-2,EN61000-6-3,EN61000-6-4, EN 62920					
	Grid	VDE-AR-N 4105,C10-11,G98/G99, CEI 0-21,EN50549,NRS 097-2-1,R25,UNE 217001 UNE 217002,NTS 2.1,PEA,MEA,NC RfG					