

Three-phase Residential Energy Storage System

Stock Code

002335.SZ

Kehua Digital Energy

Three-phase Residential Energy Storage System





Independent

- Built-in EMS function with multi-mode operation (achieves energy independence)
- Real uninterruptible power supply, switching time
 <10ms¹
- · Stronger back up power up to 20kW



Safe

- Physical and electrical dual isolation
- · Modular fire protection integration
- AFCI function integration (optional)



Simple

- · All-in-one design
- · Modular installation & Quick plug connector
- Multiple battery expansion& Multiple system expansion



Smart

- Multi-point real-time monitoring, adaptive SOC management
- PACK-level battery management, active balance of charging and discharging
- Intelligent energy management with weather forecast function

^{*1} Except for countries with special requirements.

System Specification

Items	iStoragE3 5K Series	iStoragE3 6K Series	iStoragE3 8K Series	iStoragE3 10K Series	iStoragE3 12K Series	
System components						
Inverter model	iStoragE3 5K	iStoragE3 6K	iStoragE3 8K	iStoragE3 10K	iStoragE3 12K	
Number of Inverter		1				
Battery system model		iStoragE B5-S2				
Number of battery module		1~8				
General						
System capacity		5~40kWh				
Rated system power	5kW	6kW	8kW	10kW	12kW	
Dimension (W*H*D)		800*1995*240mm/31.49*78.54*9.45in (four battery modules, with foundation)				
Noise emission		<30dB				
Cooling type		Natural cooling				
Altitude	3000m/9842ft (Derating above 2000m/6561ft)					
Operating temperature		-20~50°C/-4~122°F				
Recommended operating temperature		15~30°C/59~86°F				
Operating humidity	0~100%RH (Non-condensing)					
Display		LED & APP				
Installation method		Floor or Wall-mounted (optional)				

^{*}Specifications are subject to change without prior notice.

Hybrid Inverter Specification

Items	iStoragE3 5K	iStoragE3 6K	iStoragE3 8K	iStoragE3 10K	iStoragE3 12K	
DC Input (PV)					-	
Recommended Max. PV input power	23k ¹	23kWp		29kWp		
Max. PV input voltage		F				
No. of MPPTs			2			
No. of PV strings per MPPT	1/	1/1		2/1		
Max. PV input current	16A/	16A/16A		27A/16A		
Max. short current	20A/20A		34A/20A			
MPPT voltage range	150~900Vdc					
Starting voltage	180Vdc					
DC (PV) switch	Yes					
DC Input and Output (Battery)						
Battery voltage range	650~900Vdc					
Max. charge/discharge current	24.6A					
AC Input and Output (On-grid)						
Rated AC output power	5kW	6kW	8kW	10kW	12kW	
Rated AC output voltage			380/400Vac, 3W/N/PE			
Grid voltage range	323-418Vac/340-440Vac					
Max. output current	7.9A	9.6A	12.8A	16A	17.4A	
Max. input current	14.4A	17.4A	23.2A	26A	26A	
Rated grid frequency			50Hz			
Grid frequency range	45~55Hz/55~65Hz					
Power factor	>0.99 (rated power)					
Adjustable power factor	0.8 (leading)~0.8 (lagging)					
THDi	<3% (rated power)					
AC Output (Back-up)			. , ,			
Rated AC output voltage	380/400Vac, 3W/N/PE					
Rated output frequency		50Hz				
Rated output power	5kW	6kW	8kW	10kW	12kW	
Peak output power	12kW, 60s 20kW, 60s					
Peak output current	18.2A, 60s 30.4A, 60s					
Switch time ¹	<10ms (without parallel), <300ms (parallel)					
Support the unbalance load	Yes					
Efficiency						
Max. efficiency			98.3%			
European efficiency	97.5%					
General						
Weight		271	cg/59.52lb (including side plate	es))		
Dimension (W*H*D)		800*400*200mm/31.49*15.75*7.87in (including side plates)				
Protections	AFCI(optional), Anti-Islanding protection, DC reverse polarity protection, Insulation monitoring, DC/AC surge protection, AC short-circuit protection					
Enclosure type			IP65			
Communication Interface	Portal-WiFi (standard)/4G (optional), RS485					
Compliance	EN 62109-1/2, IEC 62109-	EN 62109-1/2, IEC 62109-1/2, EN IEC 61000-6-1/2/3/4, EN 50549-1 NC RfG, PPDS, CEI 0-21, VDE AR-N-4105, VDE V 0124-100, TOR Erzeuger Typ A ²				

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*1 Except for countries with special requirements.
*2 Certification is available in Q3.

Lithium-ion Battery Module

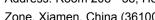


Items	iStoragE B5-S2		
General			
Cell technology	LiFePO4		
Energy capacity	5kWh		
Usable capacity ¹	5kWh		
Scalability	8		
Scalable capacity range	5~40kWh		
DOD	Max. 100 % DOD (settable)		
Rated power	4kW		
Voltage range	650~900Vdc		
Maximum charge current	6.15A		
Maximum discharge current	6.15A 7.38A,10s		
Dimension (W*H*D)	800*380*238mm/31.49*14.6*9.37in (including side plates)		
Weight	52kg/114.64lb (including side plates)		
Operating temperature	-20~50°C/-4~122°F		
Recommended operating temperature	15~30°C/59~86°F		
Humidity	0~100%RH (Non-condensing)		
Altitude	3000m/9842ft (Derating above 2000m/6561ft)		
Cooling type	Natural cooling		
Display	LED		
Communication interface	RS485, CAN		
Topology	Isolated		
Connection method	Floor or Wall mounted (optional)		
Enclosure type	IP65		
Certification	IEC 62619, IEC 60730, UN 38.3		

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^{*} Specifications are subject to change without prior notice. *1 Test conditions: 25°C, 100 % depth of discharge (DOD), 0.2C charge & discharge