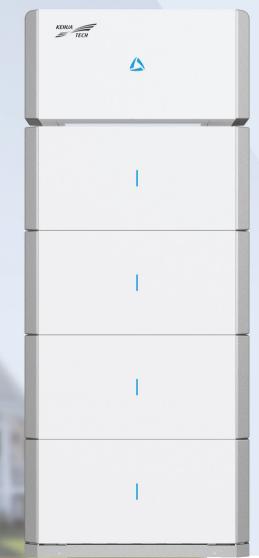




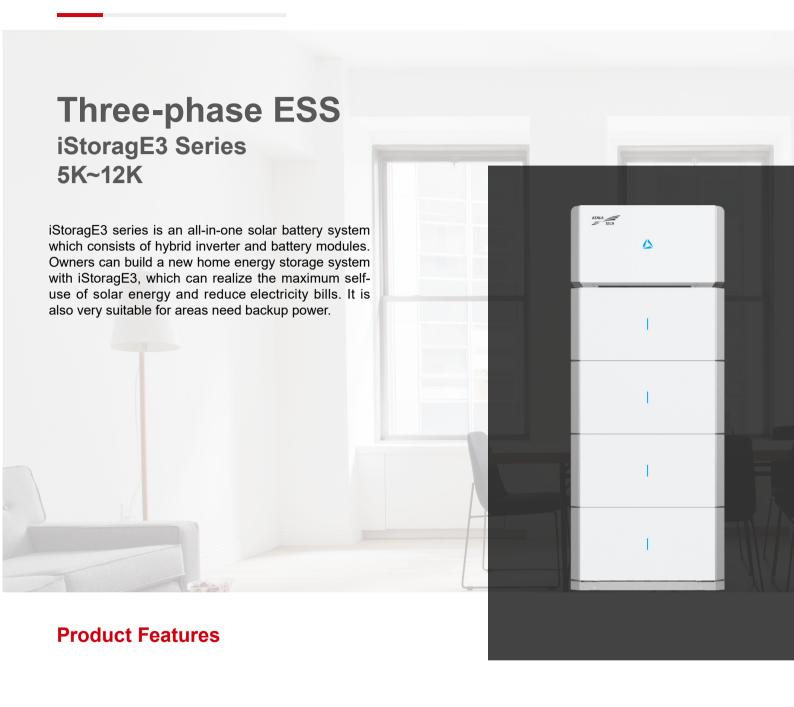
002335.SZ Kehua Digital Energy

# iStoragE3

All-in-one Residential Energy Storage System



## **Residential Energy Storage System**





#### Safe

- Physical and electrical dual isolation
- Modular fire protection integration



#### **Simple**

- · All-in-one design, modular installation
- 1~8 batteries flexible expansion



#### **Smart**

- Independent battery management, mix old and new batteries
- Built-in ECU function

## **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 pack	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 packs, with foundation)				
Noise	< 35dB				
Cooling type	Natural cooling				
Altitude	2000m/6561ft				
Operating temperature	Charge: 0~50°C/32~122°F Discharge: -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)				

<sup>\*</sup>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)	<u>'</u>					
Max. PV input power	23kWp			29kWp		
Max. PV input voltage			1000Vdc	1000Vdc		
No. of MPPTs			2			
No. of PV strings per MPPT	1/1			2/1		
Max. PV input current	16A/16A			27A/16A		
Max. short current	20A/20A		34A/20A			
MPPT voltage range	150~900Vdc					
Starting voltage	200Vdc					
DC (PV) switch	Yes					
OC 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	
lax. input current	15.2A	18.3A	24.3A	26A	26A	
Rated grid frequency			50Hz			
Grid frequency range	45~55HzHz					
Power factor	>0.99 (rated power)					
Adjustable power factor	0.8 (leading)~0.8 (lagging)					
THDi	<3% (rated power)					
AC Output (Off-girid)			` ' '			
Rated AC output voltage			380/400Vac, 3W/N/PE			
Rated output frequency			50Hz			
Rated output power	5kW	6kW	8kW	10kW	12kW	
Peak output power	12kVA, 60s		20kVA, 60s			
Peak output current	18.2A, 60s		30.4A, 60s			
Switch time <sup>1</sup>	<10ms					
Support the unbalance load	Yes					
Efficiency						
Max. efficiency <sup>2</sup>			98.3%			
European efficiency <sup>2</sup>	97.5%					
General						
Veight	27kg/59.52lb (including side plates)					
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		31000-6-1/2/3/4, IEC 61727, IE		RfG, CEI 0-21	

<sup>\*</sup>Specifications are subject to change without prior notice.

1. Except for countries with special requirements.

2. The data is from Kehua lab. The proceding values are measured by an internel laboratory of Kehua in a secific environment.

## **Lithium-ion Battery Module**



Items	iStoragE B5-S2		
General			
Cell technology	LiFePO4		
Battery energy capacity	5kWh		
Battery usable capacity <sup>1</sup>	5kWh		
Scalability	8		
Scalable capacity range	5~40kWh		
Rated power	4kW		
Voltage range	650~900Vdc		
Maximum charge current	6.15A		
Maximum discharge current	6.15A		
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	Charge: 0~50°C/32~122°F Discharge: -20~50°C/-4~122°F		
Recommended operating temperature	15~30°C/59~86°F		
Humidity	0~100%RH (Non-condensing)		
Altitude	2000m/6561ft		
Cooling type	Natural cooling		
Display	LED		
Communication interface	RS485, CAN		
Topology	Isolated		
Connection method	Floor or Wall mounted (optional)		
Enclosure type	IP65		
Compliance	IEC 62619, IEC 60730, UN 38.3		

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