

# Three-phase Residential Energy Storage System

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## **ANIRO**

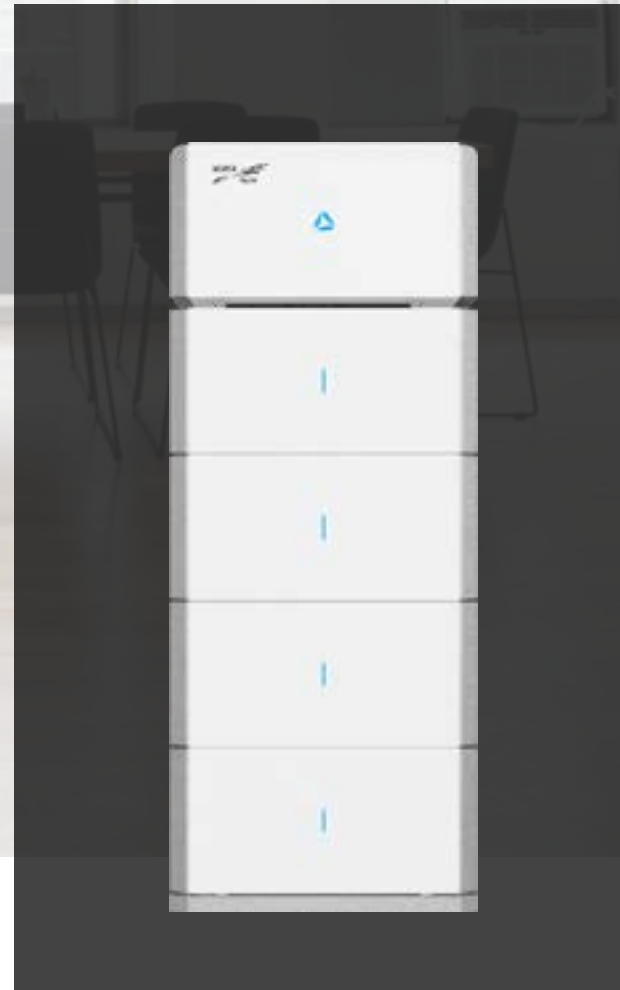
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**002335.SZ**

Kehua Digital Energy

# Three-phase Residential Energy Storage System

## Three-phase ESS iStorageE3 Series 5K~12K



### Product Features



#### Independent

- Built-in EMS function with multi-mode operation (achieves energy independence)
- Real uninterruptible power supply, switching time <10ms
- 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

# ANIRO

# System Specification

Items	iStorageE3 5K Series	iStorageE3 6K Series	iStorageE3 8K Series	iStorageE3 10K Series	iStorageE3 12K Series
<b>System components</b>					
Inverter model	iStorageE3 5K	iStorageE3 6K	iStorageE3 8K	iStorageE3 10K	iStorageE3 12K
Number of Inverter	1				
Battery system model	iStorageE B5-S2				
Number of battery module	1~8				
<b>General</b>					
Cell technology	LiFePO4				
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	2000m/6561ft				
Operating temperature	-20~50°C/-4~122°F				
Recommended operating temperature	15~30°C/59~86°F				
Storage temperature	-10~45°C/14~113°F				
Operating humidity	0~100%RH				
Display	LED & APP				
Installation method	Floor or Wall-mounted (optional)				
Communication Interface	Portal-WiFi (standard)/4G (optional), Meter-RS485, EMS-RS485 (sunspec)				

# Hybrid Inverter Specification

Items	iStorageE3 5K	iStorageE3 6K	iStorageE3 8K	iStorageE3 10K	iStorageE3 12K
<b>DC Input (PV)</b>					
Recommended Max. PV input power	9kWp		18kWp		
Max. PV input voltage	1000Vdc				
No. of MPPTs	2		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	180Vdc				
DC (PV) switch	Yes				
<b>DC Input (Battery)</b>					
Battery voltage range	650~900Vdc				
<b>AC Input and Output (On-grid)</b>					
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/60Hz				
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)				
<b>AC Output (Back-up)</b>					
Rated AC output voltage	380/400Vac, 3W/N/PE				
Rated output frequency	50/60Hz				
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	<10ms (without parallel), <300ms (parallel)				
Support the unbalance load	Yes				
<b>Efficiency</b>					
Max. efficiency	98.3%				
European efficiency	97.5%				
<b>General</b>					
Weight	27kg/59.52lb (including side plates)				
Dimension (W*H*D)	800*400*200mm/31.49*15.75*7.87in (including side plates)				
Enclosure type	IP65				
Certification	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				

\*Specifications are subject to change without prior notice.