



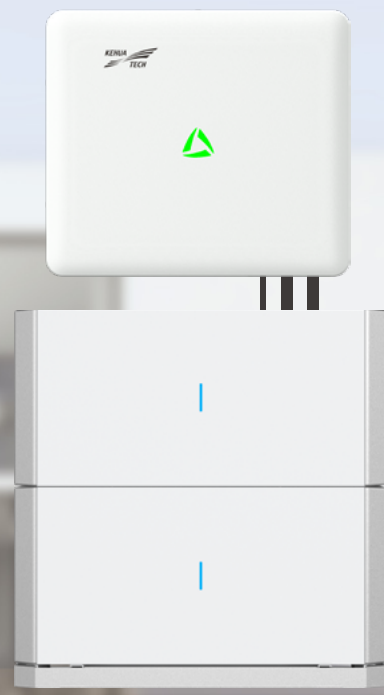
Kehua PV+ESS Solution Catalog

stock code

002335.SZ

Kehua Data Co.,Ltd

PV+ESS for the future




Lithium-ion Battery Module


Three-phase On-grid String Inverter


SPI8K~40K-B X2 Series

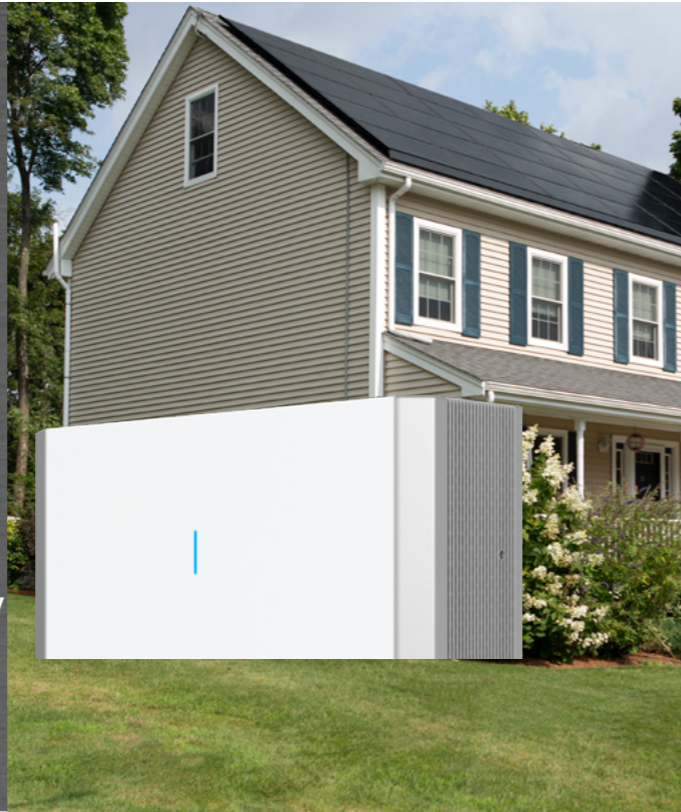
iStoragE B5 Series


Product Features

 Modular fire protection integration


 Quick plug connector

 Integrated single-battery pack energy management optimization circuit



 **High Yield**

- Multi-MPPT design with max efficiency 98.6%
- Up to 15A max current per PV string

 **Safe and reliable**

- IP66 protection, wide operating temperature, high environment adaptability
- Optional AFCI function, eliminates fire hazards

 **Easy O&M**

- Intelligent Wisesolar Plus APP+Cloud platform support remote upgrade service provides all-round visual O&M
- Compact and light weight for easy O&M

 **Battery ready (Optional)**

- Battery ready for optimizes ROI of users
- Battery power supports the load at night.

Items	iStoragE B5-S2
General	
Cell technology	LiFePO4
Energy capacity	5kWh
Usable capacity ¹	5kWh
Scalability	8
Scalable capacity range	5~40kWh
Rated power	4kW
Voltage range	650~900Vdc
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
Compliance	IEC 62619, IEC 60730, UN 38.3

* Specifications are subject to change without prior notice.

*1 Test conditions: 25°C, 0.2C charge & discharge, 100 % depth of discharge (DOD).



Technical Specification

Items	SPI8K-B X2	SPI10K-B X2	SPI12K-B X2	SPI15K-B X2	SPI17K-B X2	SPI20K-B X2	SPI23K-B X2	SPI25K-B X2	SPI30K-B X2	SPI33K-B X2	SPI36K-B X2	SPI40K-B X2
DC Input (PV)												
Max. PV power (recommend)	10.8kWp	13.5kWp	16.2kWp	20.25kWp	22.95kWp	27kWp	31.05kWp	33.75kWp	48.6kWp	48.6kWp	48.6kWp	48.6kWp
Max. PV input voltage	1100Vdc											
Rated input voltage	600Vdc											
Max. PV input current	15A/15A			30A/15A		30A/30A			30A/30A/30A			
No. of MPPTs	2								3			
No. of PV strings per MPPT	1/1			2/1		2/2			2/2/2			
MPPT voltage range	180-1000Vdc											
Starting voltage	180Vdc											
DC switch	Yes											
AC Output (On-grid)												
Rated AC output power	8.0kW	10.0kW	12.0kW	15kW	17kW	20kW	23kW	25kW	30kW	33kW	36kW	40kW
AC	Three Phase											
Max. output power	8.8kVA	11.0kVA	13.2kVA	16.5kVA	18.7kVA	22kVA	25.3kVA	27.5kVA	33kVA	36.3kVA	39.6kVA	40kVA
Rated AC output voltage	380/400/415Vac											
Rated output current	11.6A	14.5A	17.4A	21.7A	24.5A	28.9A	33.2A	36.1A	43.2A	47.6A	52.0A	57.7A
Max. output current	12.8A	15.9A	19.1A	23.8A	27.0A	31.8A	36.5A	39.7A	47.6A	52.4A	57.2A	57.7A
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)											
Function and protection												
Anti-islanding	Yes											
DC (PV) reversed connection	Yes											
AC short circuit protection	Yes											
Temperature protection	Yes											
Surge protection	DC Type II & AC Type III (Type II optional)											
AFCI function	Yes (optional)											
Integrated PID function	Yes (optional)											
Zero-export function	Yes (optional)											
ESS function	Yes (with meter) (optional)											
Certification												
Dimensions (W×H×D)	460×420×182mm			460×420×182mm				550×480×200mm				
Weight	16kg			17kg				27kg				
IP grade	IP66											
Self-consumption at night	<1W											
Cooling type	Natural cooling			Intelligent forced air cooling								
Altitude	4000m (>3000m derating)											
Operating temperature	-35°C~+60°C											
Relative humidity	0~100%											
Display	LED+APP											
DC terminal	MC4 Terminal											
AC terminal	OT Terminal											
Installation method	Wall-mounted											
Communication	RS485 (optional), DRM (optional), WiFi/4G (optional), Bluetooth (optional)											

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