

JKS10.24K-5HLVS

Low Voltage System

Solar
JinkO



RELIABLE POWER SUPPLY

Maximum PV STC power up to 11.6kw



LONG LIFE SPAN

10 years warranty for guaranteed product performance and service



SMART ENERGY MANAGEMENT

UPS switch time within 16ms for seamless power supply



GOOD PROTECTION

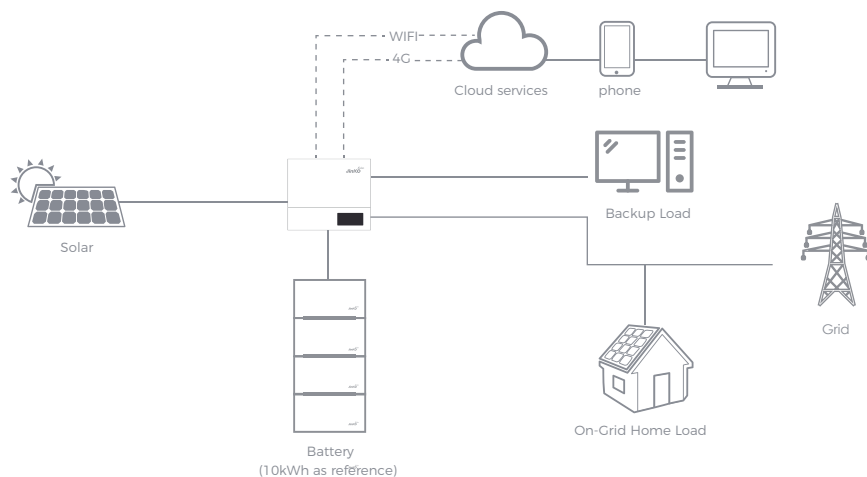
IP65 for perfect dusk and waterproof quality



HIGH SAFETY

Cobalt free LiFePO4 battery for safer usage

CIRCUIT DIAGRAM



SPECIFICATIONS

Model		JKS10.24K-5HLVS
System capacity		JKS10.24K-5HLVS
PV INPUT	Max.Recommended PV Module Power[W]	11600
	Start voltage[V]	120
	Max. PV voltage	550
	MPPT voltage range[V]	120-550V
	Max. input current of tracker A/B	13.5A/13.5A
	Max. Short-circuit current of tracker A/B	16.9A/16.9A*
	Number of independent MPP trackers / strings per MPP tracker	2/1
AC OUTPUT	Rated AC output power[W]	5000
	Rated Apparent power[VA]	5000
	Rated input/output current[A]	22/22
	Nominal AC output voltage[V]	230
	Nominal grid frequency	50/60HZ.±5HZ
	Power factor at rated power	1
	Displacement power factor	0.8 leading or lagging
	THDI	<3%
EPS OUTPUT POWER (BACKUP)	Rated Apparent power	4000VA
	Rated AC output voltage	230VAC
	Rated AC output frequency	50/60HZ
	Automatic switchover time	<16 ms
BATTERY DATA	Operating voltage range	47.2-56.8V
	Nominal voltage	51.2V
	Max charging and discharging current	100A
	Max charging and discharging power	4000W
	Battery type	LFP
	Capacity of battery	10.24kWh(4 battery pack parallel); Battery parallel number expandable from 1-10 Packs(2.56-25.64kWh)
EFFICIENCY	Max efficiency	97.60%
	Euro European efficiency	97.20%
GENERAL DATA	Dimensions (W / H / D)	PCS: 461/565/188mm Battery pack: 650/260/185mm
	Weight	PCS: 27kg Battery pack: 28kg
	Operating temperature range	PCS: -25 C ~+60 C Battery: -10 C ~+50 C "
	Altitude	2000 m
	Self-consumption	<3W
	Topology (solar)	Transformerless
	Cooling concept	Natural
	Environmental Protection Rating	IP65
	Relative humidity	100%
	Interfaces	RS232 / RS485 / CAN / USB
	Monitor	RF / WIFI / GPRS
	Warranty	PCS: 10 years Battery: 10 years

Note*: Internal testing shows that Suntank inverter series can accept short-circuit current per MPP tracker up to 18A as Isc.

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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SUNTANK

JKS-3~6HLVS-ABI

Inverter Series

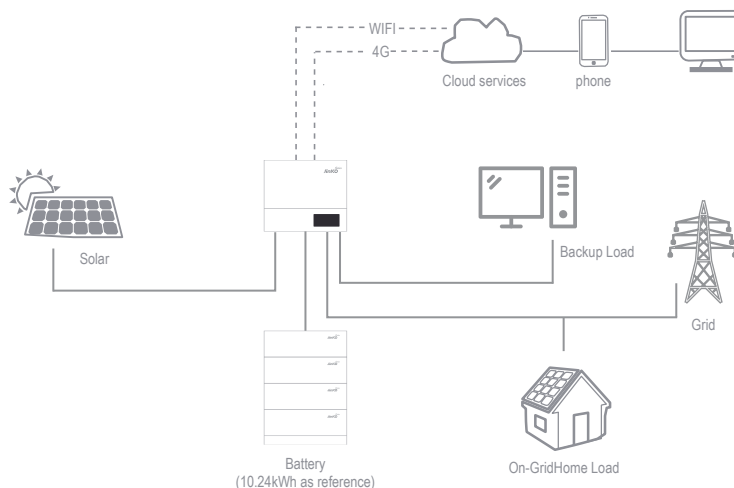
More powerful
More efficient

New intelligent platform use new energy



Key Features

- Smart load management via dry contact
- Scalable System configuration
- Remote smart O&M
- UPS function, 16ms transition
- VPP interface ready
- Max. 2.12 DC/AC ratio



SPECIFICATIONS

System capacity	JKS-3HLVS-ABI	JKS-3.6HLVS-ABI	JKS-4HLVS-ABI	JKS-4.6HLVS-ABI	JKS-5HLVS-ABI	JKS-6HLVS-ABI
INPUT DATA (PV)						
Max. recommended PV power (for module STC)	6000W	7200W	7600W	8200W	11600W	11600W
Max. DC voltage			550V			
Start voltage			120V			
MPP voltage range			120-550V			
No. of MPP trackers			2			
No. of PV strings per MPP tracker			1			
Max. input current per MPP tracker			13.5A			
Max. short-circuit current per MPP tracker			16.9A*			
OUTPUT DATA (AC)						
AC nominal power	3000W	3600W	4000W	4600W	5000W	6000W
Rated apparent power	3000VA	3680VA	4000VA	4600VA	5000VA	6000VA
Nominal AC voltage (range)			230V/(180Vac-270Vac)			
AC grid frequency (range)			50Hz(45Hz-55Hz)			
Rated input/output current	13.5/13.5A	16/16A	17.5/17.5A	20/20A	22/22A	27/27A
Adjustable power factor			0.8leading~0.8lagging			
THDi			<3%			
AC grid connection type			Single phase			
BATTERY DATA (DC)						
Battery voltage range			42~59V			
Max charging and discharging current	66A	75A	85A	85A	85A	85A
Continuous charging and discharging power	3000W	3680W	4000W	4000W	4000W	4000W
Type of battery			Lithium /Lead-acid			
BACKUP POWER (AC)						
Rated Apparent Power	3000VA	3680VA	4000VA	4000VA	4000VA	4000VA
Rated output current	13A	16A	17.5A	17.5A	17.5A	17.5A
Nominal AC output voltage			230Vac			
Nominal AC output frequency			50HZ			
THDv			<3%			
Switch time			<16ms			
EFFICIENCY						
Max. efficiency	97.20%	97.20%	97.30%	97.40%	97.50%	97.60%
European efficiency	97%	97%	97.10%	97.10%	97.20%	97.20%
MPPT efficiency			≥99.5%			
PROTECTION DEVICES						
DC switch			Yes			
DC reverse polarity protection			Yes			
AC/DC surge protection			Yes			
Battery reverse protection			Yes			
AC short-circuit protection			Yes			
Ground fault monitoring			Yes			
Grid monitoring			Yes			
Anti-islanding protection			Yes			
Residual-current monitoring unit			Yes			
Insulation resistance monitoring			Yes			
GENERAL DADA						
Dimensions (W / H / D)			456/565/188mm			
Weight			27kg			
Operating temperature range			-25°C ~ +60°C			
Nighttime power consumption			< 10 W			
Topology			Transformerless			
Cooling			Natural			
Protection degree			IP65			
Relative humidity			0~100%			
Altitude			2000m			
Battery DC connection.			OT Terminal			
AC connection			Connector			
Display			LCD+LED			
Interfaces:RS485/CAN/USB			Yes			
Monitor : RF/WIFI/GPRS			Optional			
Country of Manufacture			China			
Certification			CE, IEC62109, G98/G99, VDE0126-1-1, AS4777, CEI 0-21, VDE-AR-N4105, UTE C 15-712, EN50549, IEC 61727, IEC 62116, IEC 62040, C10/11, NRS 097-2-1			

Note*: Internal testing shows that Suntank inverter series can accept short-circuit current per MPP tracker up to 18A as Isc.

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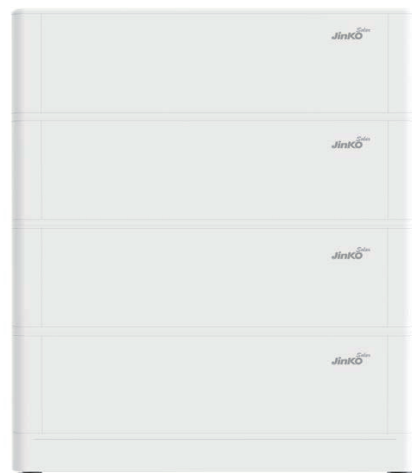
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JKS-3-6HLVS-ABI-A3

JKS-B51XXX-BI Battery System Series

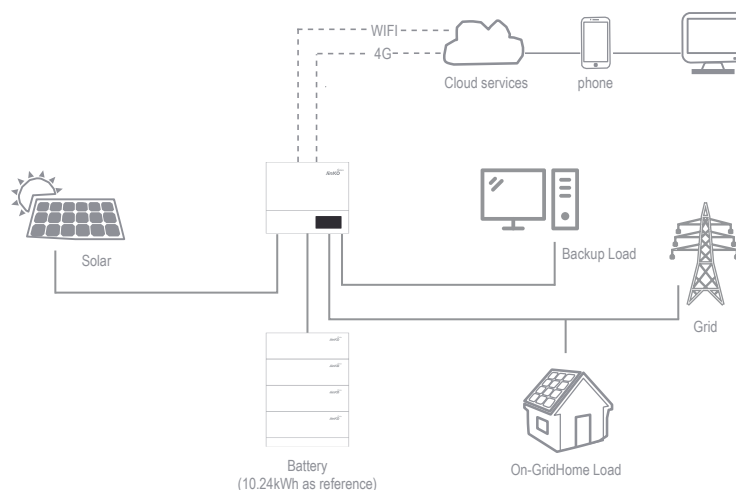
More powerful
More efficient

New intelligent platform use new energy



Key Features

- Flexible capacity options, 2.56kWh to 25.6kWh
- Excellent safety of cabalt free LiFePO4 battery
- Easy installation with modular and stacked design
- Remote firmware upgrade



SPECIFICATIONS

Datasheet

JKS-B5150-BI

JKS-B51100-BI

JKS-B51150-BI

JKS-B51200-BI

JKS-B51250-BI

JKS-B51300-BI

JKS-B51350-BI

JKS-B51400-BI

JKS-B51450-BI

JKS-B51500-BI

System Demo



Battery Module

JKS-B5150-BI (2.56kWh, 51.2V, 28kg)

Number of Modules	1	2	3	4	5	6	7	8	9	10
Nominal Energy	2.56kWh	5.12kWh	7.68kWh	10.24kWh	12.8kWh	15.35kWh	17.92kWh	20.48kWh	23.04kWh	25.64kWh
Rated Energy	2.30kWh	4.60kWh	6.90kWh	9.21kWh	11.52kWh	13.81kWh	16.12kWh	18.43kWh	20.73kWh	23.04kWh
Dimension (W/D/H)	650/260/185 mm	650/260/366 mm	650/260/547 mm	650/260/728 mm	650/260/909 mm	650/260/1090 mm	650/260/1271 mm	650/260/1452 mm	650/260/1633 mm	650/260/1814 mm
Weight	28kg	56kg	84kg	112kg	140kg	168kg	196kg	224kg	252kg	280kg
Standard Charge/Discharge Current	25A	50A	75A	100A	100A	100A	100A	100A	100A	100A
Rated DC Power	1.28kW	2.56kW	3.84kW	5.1kW	5.1kW	5.1kW	5.1kW	5.1kW	5.1kW	5.1kW
Usable Capacity	2.3kWh	4.6kWh	6.9kWh	9.2kWh	11.5kWh	13.8kWh	16.1kWh	18.4kWh	20.7kWh	23kWh
Max. Charging/Discharging Power	2.45kW	4.9kW	5.63kW	5.63kW	5.63kW	5.63kW	5.63kW	5.63kW	5.63kW	5.63kW
Max. Charging/Discharging Current	48A	96A	110A	110A	110A	110A	110A	110A	110A	110A
Fault Current	49A	98A	110A	110A	110A	110A	110A	110A	110A	110A

GENERAL

Battery Type	Cobalt Free Lithium Iron Phosphate (LFP)
Nominal Voltage	51.2V
Operating Voltage Range	47.2 - 56.8V
IP Protection	IP65
Installation	Wall-mounted or Floor installation *1
Operation Temperature	-10°C ~ 50°C

FEATURES

BMS Monitoring Parameters	SOC, System voltage, current, cell voltage, cell temperature, PCBA temperature measurement
Communication Port	CAN
Warranty: 10 years	Yes
Certification	IEC62619 (Cell&Pack), CE, CEC, RCM, UN38.3

*1 Floor installation requires extra base (W/D/H=650/260/80 mm)

*2 Battery discharge: -10°C ~ 50°C, battery charge: 0°C ~ 50°C

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