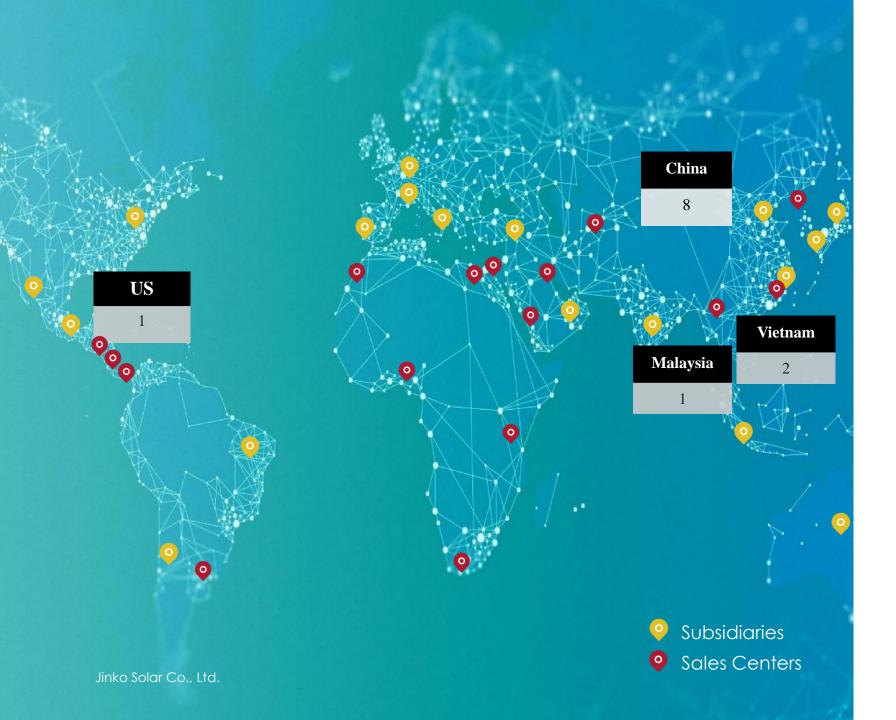


Roman Giehl, Senior Manager Technical Business Development



Introduction of the Company





Jinko Solar Global Layout

Providing highly localized solutions

12
Production
Facilities

25000+

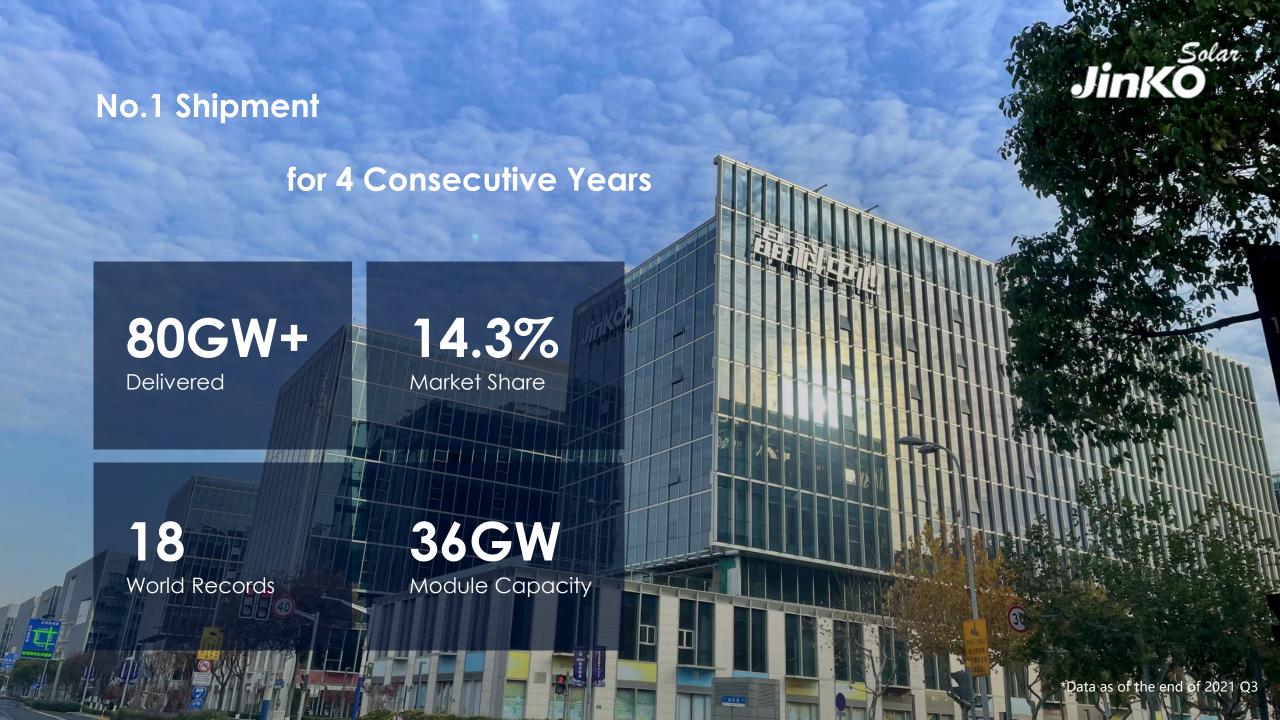
Employees

30+
Service Centers

3000+

Customers

160+
Covered
Countries



Industry Leading R&D Strength



400+ ที่ที่ที่ที่ที่ที่ที่ที่ที่ที่ที่ R&D team

721 Granted patents

87 🗐 🗐 Invention patents

2 A R&D centers



















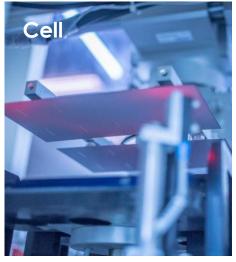


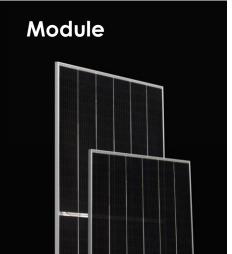


What We Do













Solar Business

Continuously expanding the production capacity of silicon wafers, cells and modules, to create a vertically integrated PV industrial chain

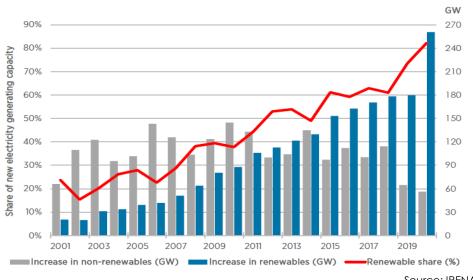
Our Solutions

BIPV+BAPV to foster the development of green buildings Solar+ Solutions and Energy Storage System

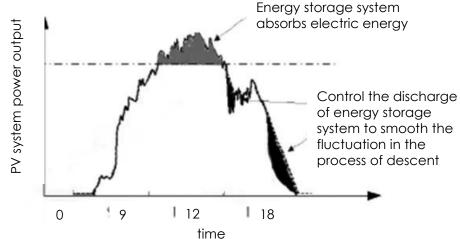


Impact of Renewable energy - Power System Evolution

New capacity of renewable energy and its proportion



Source: IRENA



PV + Energy storage become an increasingly essential model

The transformation of energy structure

- (1) Significantly increased in renewable energy
- (2) Generation forecast of existing power stations
- (3) Balance the generation and consumption

Impact of PV power generation on power system

- (1) Affect the stable operation of power grid
- (2) Serious challenges for the dispatching of power station
- (3) Affect the economic benefit of power system
- (4) Impact on distribution national power grid



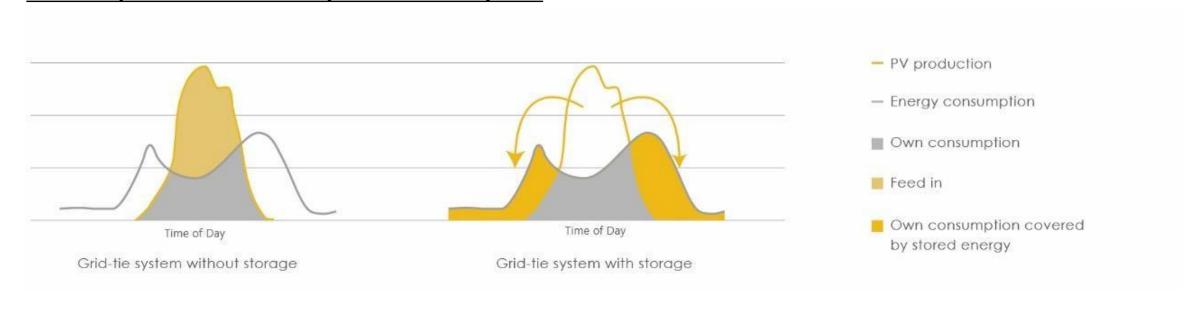
Jinko Energy Storage Products & Advantages

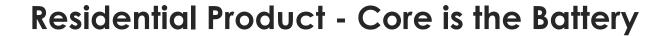




Self-consumption

The typical electricity demand curve usually doesn't meet the PV generation curve.By storing the surplus PV generation into a battery storage unit, you can maximize **self-consumption and reduce your electricity bill.**



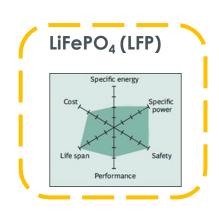


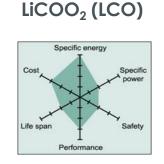


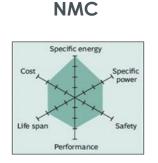
Long Battery Life

LFP (lithium iron phosphate) Battery – Mainstream Product

Jinko ESS use LFP and Metal-Can for safest operation and longest cycle-life

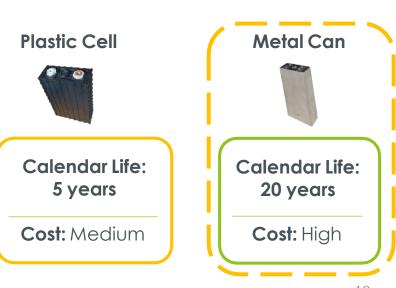












Our Solutions - Energy Storage Products





Residential Storage System

(1kWh-50kWh)

C&I Storage System

(50kWh-1MWh)

Utility Storage System

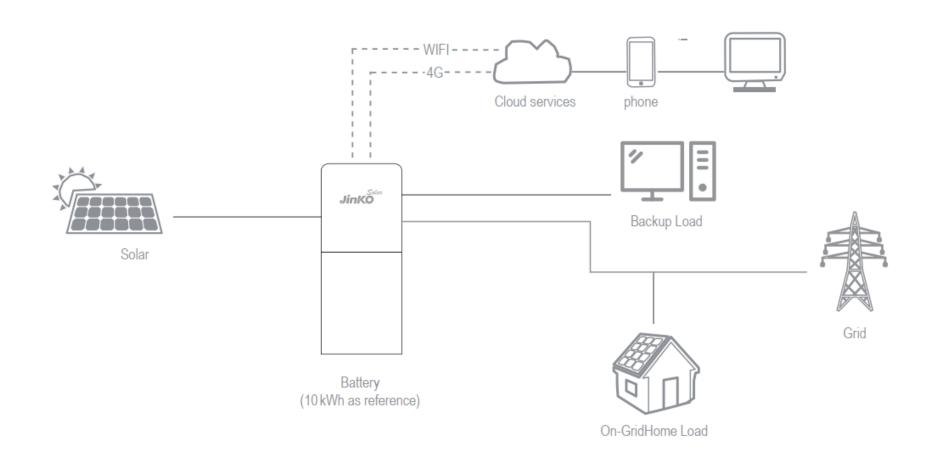
(≥1MWh)



Jinko Energy Storage Residential



Residential Product - All-in-one-Solution





Residential Product - All-in-one-Solution



Key Features

- More Aesthetics Exterior Design.
- Double Leakage Current and Isolation Protection,
 Higher Safety for Users
- Natural Convection Design, Wider Operating Temperature Range
- All-in-One RESS Solution, More User-friendly Installation
- Smart Real-time System Monitoring APP Available
- Battery Capacity Flexibly Expands up to 40 Packs

- Barrery Capacity Hexibity Expands up to 40 faces		
Model	JKS10.2K-5HLVS	
System Capacity	5kW/10kWh	
Max. DC Input Power (W)	6000	
Number of MPPT	2	
Max. input current per MPPT	13A	
Battery Type	LFP (LiFePO4)	
Nominal Battery Voltage	51.2V	
Battery Capacity	100Ah	
Energy Capacity	10.24kWh	
Nominal AC output power	5000W	
Max. Output Power	4600W	
Nominal Output Voltage	220/230Vac	
Nominal Output Frequency	50/60Hz±5Hz	
Dimensions W x D x H (mm)	623*170*1843mm	
Weight (kg)	Cabinet:52 Inverter:25 Packs=44*2	
*Operating temperature range	-20°C~+55°C	
IP class	IP65	
Display	APP	
* For charging operation: 0° C~+55°C, for discharging operation: -20° C~+55°C		

Residential Product - All-in-one-Solution



JKS10.2K-5HLVS

More powerful More efficient

New intelligent platform use new energy

System: IEC62109 EN61000

Battery: IEC 62619 IEC 63056 EN61000 UN 38.3

Inverter: IEC 62109 NRS 097



Key Features



More Aesthetics Exterior Design



Natural Convection Design, Wider Operating Temperature Range



Smart Real-time System Monitoring APP Available



Double Leakage Current and Isolation Protection Higher Safety for Users



All-in-One RESS Solution, More User-friendly Installation



Battery Capacity Flexibly Expands up to 6 Packs



Residential Product - All-in-one solution

Model	JKS-RESS-5kW/10kWh		
System Capacity	5kW/10kWh		
PV String Input			
Max. DC Input Power (W)	6000		
Max. DC Input Voltage (V)	580		
Nominal voltage (V)	360		
MPPT voltage range	125V-550V		
Startup voltage	90V		
Number of MPPT	2		
Max. input current per MPPT	13A		
Max. short-circuit current per MPPT	15A		

Efficiency			
Max. PV Efficiency	97,80%		
Euro. PV efficiency	97,00%		
Max. Battery to Load Efficiency	93,00%		
Battery charged by PV Max. Efficiency	92,70%		

Battery Input				
Battery Type	LFP (LiFePO4)			
Nominal Battery Voltage	51.2V			
Charging Voltage range	44.8-57.6V			
Max. Charging Current	70A			
Max. Discharging Current	80A			
Battery Capacity	100Ah			
Energy Capacity	10.24kWh			
Usable Capacity	9.216kWh			

AC Output (Grid)				
Nominal AC output	5000W			
power				
Maximum AC output	110%load: 30min; 120%l			
power	oad: 5min;			
Nominal AC voltage	220/230Vac			
AC grid frequency	50 / 60Hz±5Hz			
range	30 / 00112±3112			
Rated output current	21.7A			
D. (1.1)	0.8leading-			
Power factor (cosΦ)	0.8lagging			
THDi	<3%			



Residential Product - Non Integrated Solution

JKS9.6K-5HLVS

Capacity Range:

7.2kWh~38.4kWh

Power Range:

3.6kW~10kW:



more powerful more efficient

New intelligent platform use new energy

Match single/three-phase scheme



Intelligent battery management function



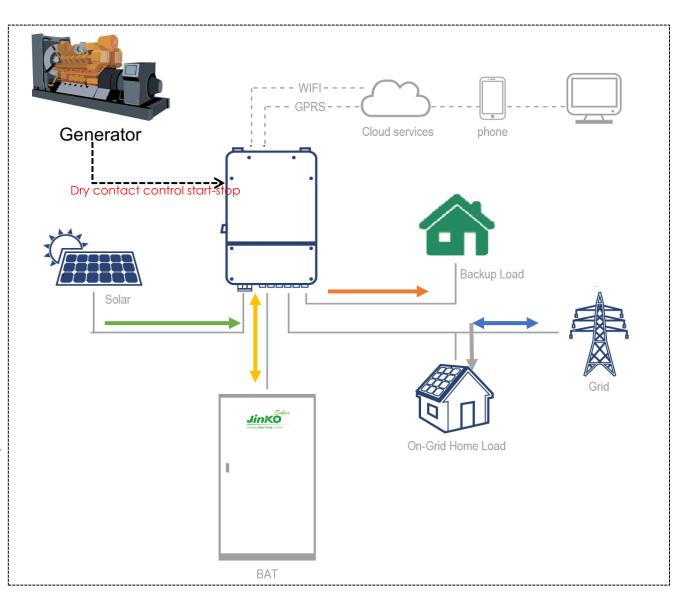
Back-Up Mode can integrate with diesel generator



More security & performance for same costs



Monitoring inverters freely via computers or mobile phones





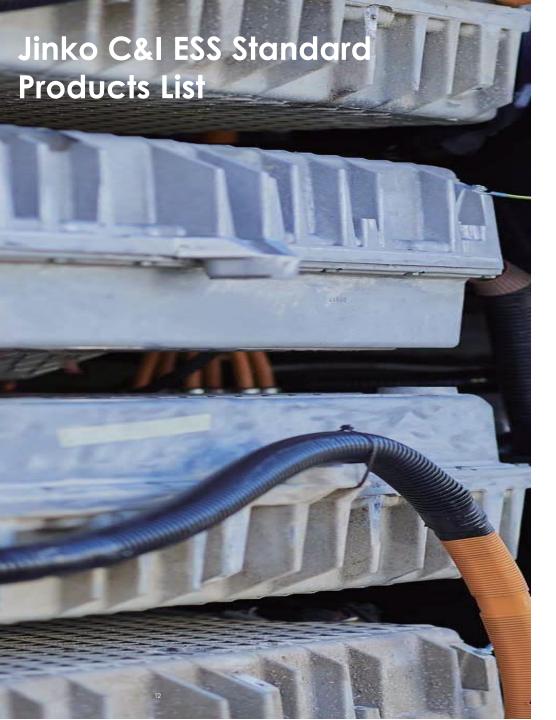
Residential Products – Facts of Interest

- The all in one system JKS10.2K-5HLVS was already launched in the WFES exhibition in Abu Dhabi
- > The expected day for completion of product certification is end of February 2022
- Other grid related (regional) certificates including SA, Ge, It, Lebanon is expected to be completed end of April 2022
- > The residential RESS split system will be launched in May2022 (is under R&D in the moment)
- The split system is using separate and scalable battery blocks, a 3-phase inverter, offers a back up system, can be charged by a diesel generator and used as an island system
- We offer the split system as a complete package including 3 phase hybrid inverter and batteries or only the batteries
- > The battery packages will be certified to operate with all standard inverters available on the market

The large scale utility ESS covers 1 – 4 hours system solutions, includes air cooling, liquid cooling and will be designed individually on demand



Jinko Energy Storage C&I and Utility



Naming rules



JKS552K-250H

Hybrid Inverter

BESS power

BESS capacity





Model	Power	Capacity	Size
JKS64K-50H		64kWh	
JKS128K-50H	50kW	128kWh	2250mm×1300mm×2591mm
JKS192K-50H		192kWh	
JKS128K-100H		128kWh	0050
JKS192K-100H		192kWh	2250mm×1300mm×2591mm
JKS256K-100H	100kW	256kWh	
JKS320K-100H		320kWh	2991mm×2438mm×2591mm
JKS384K-100H		384kWh	
JKS276K-250H		276kWh	
JKS552K-250H	250kW	552kWh	6058mm×2483mm×2591mm
JKS1104K-250H		1104kWh	
JKS552K-500H	5001.147	552kWh	10100
JKS1104K-500H	500kW	1104kWh	12192mm×2483mm×2591mm







ltems	Parameters		
Model	2.7MWh	1.35MWh	
Cell used	100 Ah LFP Cell		
Nominal Battery Capacity (MWh)	2.7	1.35	
Number of cells	8448 pcs	4224 pcs	
Nominal Capacity (Ah)	2400	1200	
Voltage Range (V)	880-1284.8 (352x (2.5-3.65))		
Continuous charge/discharge ratio	0.5 C		
Weight (tons)	26	13	
Operating termperature	-20 – 55 °C		
Dimension (mm)	20ft:6058x2438x2896		
IP Grade	IP54		
System Composition	Not including PCS		
Cooling	Air-conditioning		
Fire Protection	FM200		
Communication Protocol	RS485, CAN		
Certifications	UN 38.3, UL 1973, UL 9540A(RACK)		

life > 6000 Cycles

Higher energy density

2.7MWh/20ft





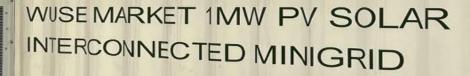
August 2021

PV +ESS

1000kW PV

1200kWh LFP BATTERY

It has solved the fundamental problem of local power instability for Abuja, the capital of Nigeria. It supports the power supply of shops in the local Royal market.



SPPORTED BY:

Jin/KO Schreider













Optimize the energy portfolio and take responsibility for enabling a sustainable future