Residential On/Off-Grid ESS

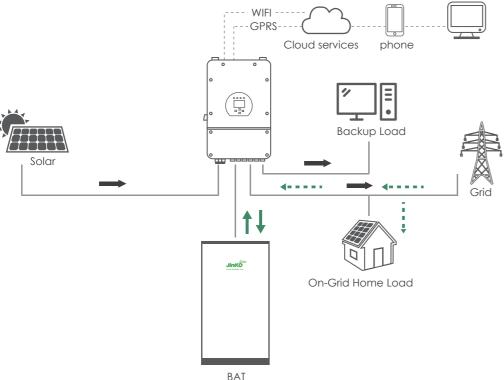
1. Safety first:

Product safety can never be compromised. That is why JESS residential product is designed with the safer choice of LFP battery technology. System is designed with redundancy at each level of system from rack to system.

2. Maximum return, minimum cost

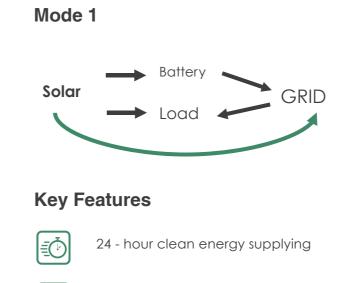
High system efficiency ensures that minimum energy is lost in transition. Competitively sources components delivers maximum return with minimum cost.

Circuit Diagram



3. Easy home user platform:

We understand our home users want instant control and monitoring of their home systems. Hence, our APP delivers this capability regardless of whether your system is on Android or IOS.



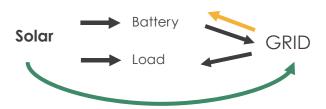


Flexible design, easy to scale up

Real-time monitoring at anywhere via APP



Mode 2

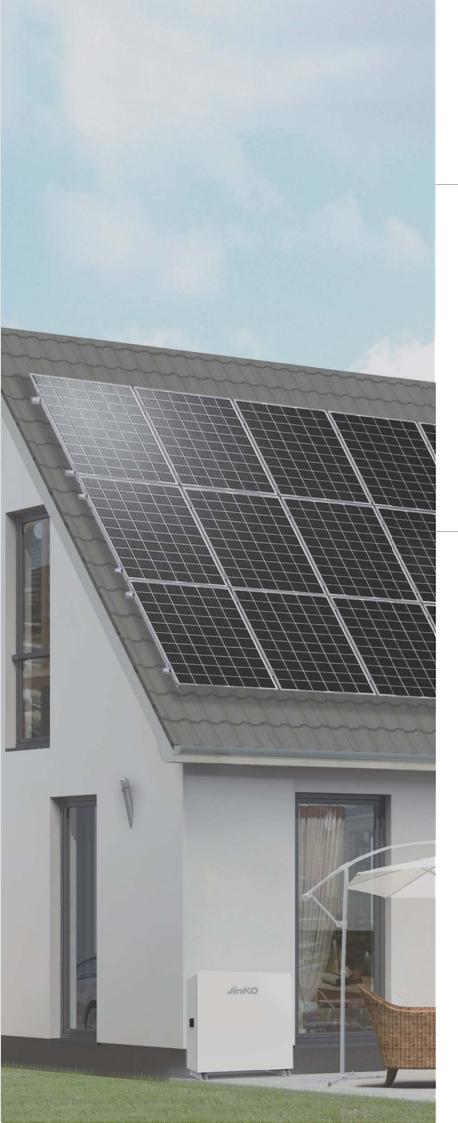




Fast, easy installation



Automatically on/off-grid switch



Pack Configuration



Туре	Low Voltage
Battery type	LFP
Cell capacity	50Ah
Rated capacity	2.4kWh
Rated voltage	48V
Max. ~Min.voltage	42~52V
Rated charge/discharge C rate	0.4C
W*D*H Dimensions	482 x 91 x 433 mm
Weight	24kg ± 1kg

Low Voltage

System Specifications



INVERTER



Battery

ltem	3.6kW-7.2kWh	5kW-9.6kWh	8kW-19.2kWh	
Max. PV Input power	4.68kW	6.5kW	10.4kW	
MPPT range		125-425V, Max. 500V		
AC rated power	3.6kW	5kW	8kW	
Output voltage		230Vac (Single phase), 50/60 H	łz	
Battery capacity	7.2kWh	9.6kWh	19.2kWh	
Battery voltage	48V, (Inverter:40-60V; BMS:42-51.5V)			
IP level	IP65 (inverter), IP55(Battery)			
Cycle life	≥6000 cycles, 80%DOD, @25°C, 0.5C, 70%EoL			
Operating mode	On grid/off grid, switch time <20ms			
Dimension (W*H*D, mm)	680*233*42	20mm (Inverter); 570*1150*285n	nm (Battery)	
Weight	24kg(5kW inverter) 32kg(8kW inverter), 133kg (9.6kWh/Battery cabinet)			
Monitoring	APP/Web			
BMS Communication		R\$485 /CAN		
Certification		rter: VDE0126, IEC621091/2, IEC Battery module: IEC62619, UN38		



High Voltage

- LFP
- 25Ah
- 2.56kWh
- 102.4V
- 86.4~112V
- 0.5C/0.8C
- 440× 86× 520mm
- 27kg ± 1kg

Battery module: IEC62619, UN38.3



High Voltage





- allows up to 10% overloading to maximize power output and features.
- Uninterruptible Power Supply function (UPS) to inductive loads such as air conditioners or refrigerators with an automatic switchover time of less than 10 milliseconds.

10kW INVERTER

12.5kWh Battery cabinet

System Specifications

Item	10kW/12.5kWh
Max. PV Input power	13kW
MPPT range	200-850V,Max
AC rated power	10kW
Output voltage	400Vac(3 phase
Battery capacity	12.5kWh
Battery voltage	512V,(Inverter:180-600V
IP level	IP65(inverter),IP5
Cycle life	≥6000 cycles,80%DOD,@2
Operating mode	On grid/off grid, swit
Dimension (W*H*D, mm)	415*516*180mm 660*1650*260mm(Single
Weight	24kg(inverter),197±2kg(Sin
Monitoring	APP/We
S Communication protocol	CAN2.
Certification	Inverter: VDE-AR-N 4105, VDE 0126-1-1, EN Battery module:IEC62619,UN38.3

10kW/25kWh

x. 1000V

e),50/60 Hz,

25kWh

V;BMS:448V~584V)

P55(Battery)

25°C, 0.5C, 70%EoL

itch time <20ms

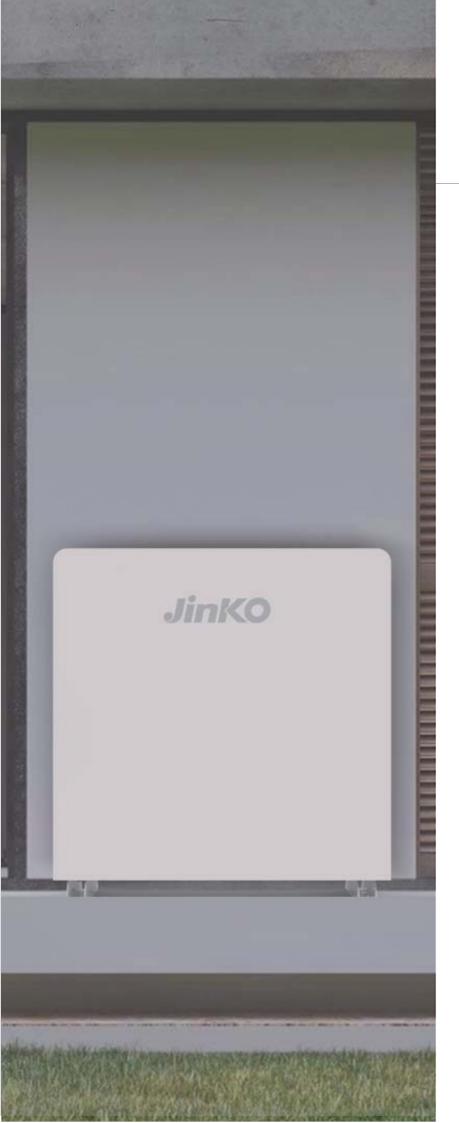
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N 50549-1, G98, G99, G100, CEI 0-21



For single phase version Parameters

Self consumption Off-grid & AC Bypass



	Item description	3kW-7.2kWh	5kW
	Max. PV Input power	4kW	
	MPPT range	30-115V,Ma	x. 145V
	AC rated power	4kW	
	Output voltage	Single phase 230V	′ac 50/60 Hz,
	Battery capacity	7.2kWh	9
	Max. capacity	4 cabinet in parallel	, Max. 38.4kW
	Battery voltage	48V,(Inverter:40-60V	;BMS:42-51.5V
	IP level	IP20(inverter),IP3	55(Battery)
	Cycle life	≥6000 cycles,80%DOD,@2	25℃,0.5C,70%
	Operating mode	Off gri	d
	Dimension (W*H*D, mm)	295*468*120mm(Inverter);570*11; 140*303*525mm(Inverter)	50*285mm(Bat
	Weight	12.5&13.5kg(inverter),133	Kg(Battery ca
	Monitoring	PC	

BMS Communication

V-9.6kWh

4kW

5kW

9.6kWh

۷h

V)

%EoL

attery cabinet)

abinet)

RS485 /USB