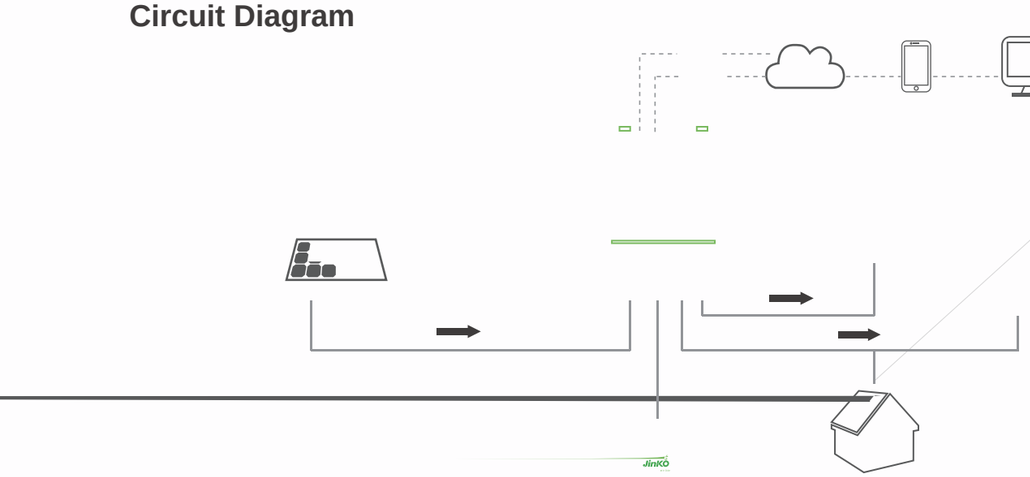
Residential On/Off-Grid ESS

1. Safety first:
Product safety can never be compromised. That is why JESS residential product is designed with the safer choice of LFP battery techno2*fy. System is designed with redundancy at each level of system from rack to system.

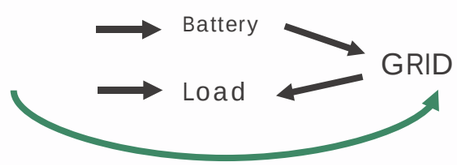
2. Maximum return, minimum cost:
High system efficiency ensures that minimum energy is lost in transition. Competitively sources components delivers maximum return with minimum cost.

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.

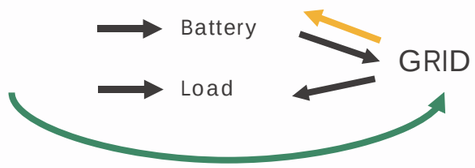
Circuit Diagram



Mode 1



Mode 2



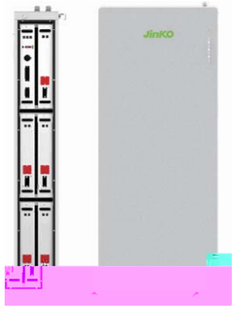
Key Features

- 24 - hour clean energy supplying
- Flexible design, easy to scale up
- Real-time monitoring at anywhere via APP
- Fast, easy installation
- Automatically on/off-grid switch

System Specifications

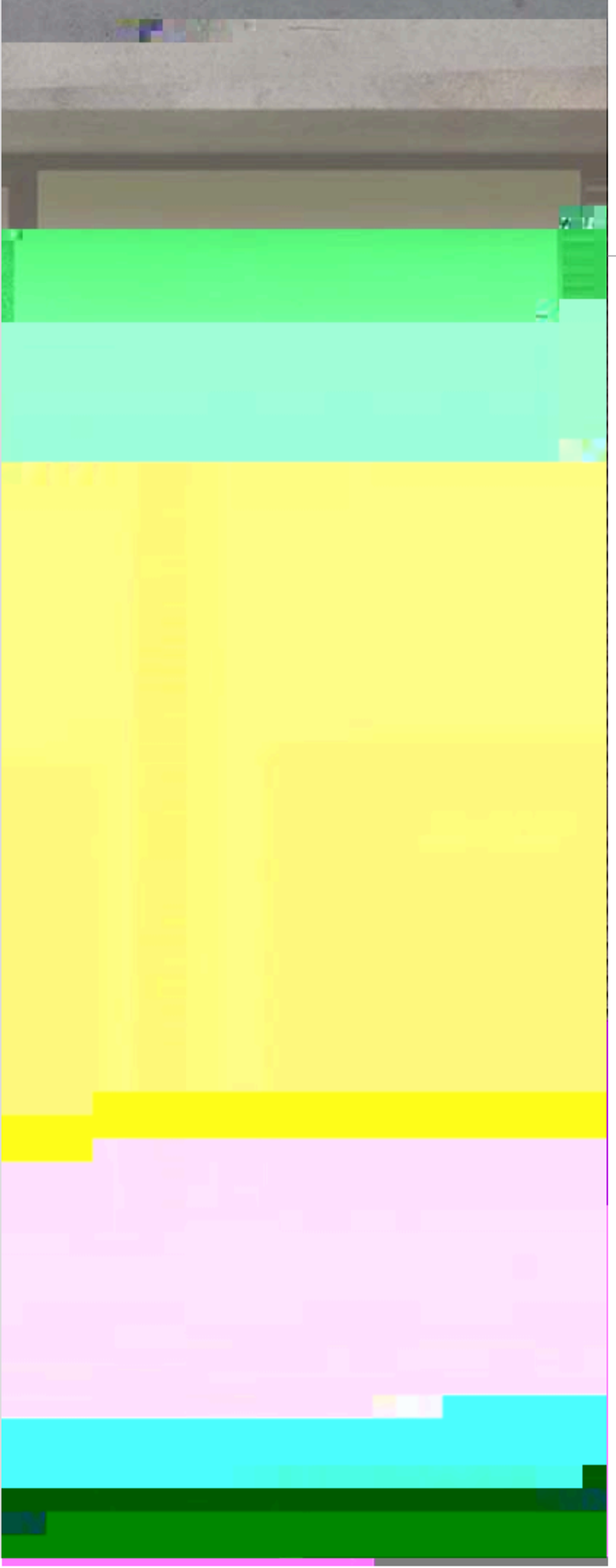
High Voltage

10kW INVERTER



12.5kWh Battery cabinet

- 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.



For single phase version Parameters

Self consumption
Off-grid & AC Bypass

Max. PV Input power	4kW	4kW
MPPT range	30-115V,Max. 145V	
AC rated power	4kW	5kW
Output voltage	Single phase 230Vac 50/60 Hz,	
Battery capacity	7.2kWh	9.6kWh
Max. capacity	4 cabinet in parallel, Max. 38.4kWh	
Battery voltage	48V,(Inverter:40-60V;BMS:42-51.5V)	
IP level	IP20(inverter),IP55(Battery)	
Cycle life	•6000 cycles,80%DOD,@25 - o0.5Co70%EoL	
Operating mode	Off grid	
Dimension (W*H*D, mm)	295*468*120mm(Inverter);570*1150*285mm(Battery 140*303*525mmP0 91(ry)]J-1219.377[(t)-7.2(y)12(inv2 Tc[Tc1.030mm)1/TT4 1 Tf23133 (Weight09 T(li416 re016	