

Utility On Grid ESS

Jinko's Product Platform

1. Installation technology:

Our products require fast installation and commissioning. Jinko offers standard 20ft and 40ft battery containers as well as other modular design to ensure quick transportation and integration in the field.

2. Top level energy

JESS is constantly developing higher energy density solutions. Our latest design offers more than 5mwh of energy in one container. This is possible through selection of high energy density cell, and pack design.

3. Long product life:

We extensively model different operation scenario. Together with project historical data, we are able to maximize system life cycle.



Multilevel protection strategy



Rapid installation and commissioning



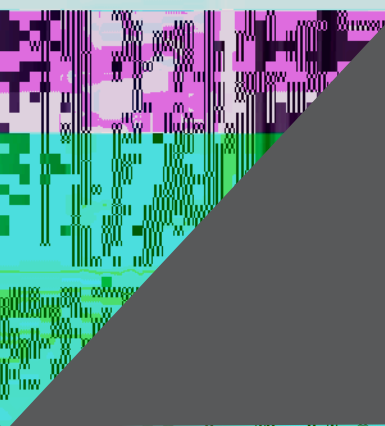
Integrated battery platform with safety and reliability



Modular design suitable for various scenarios

Applications

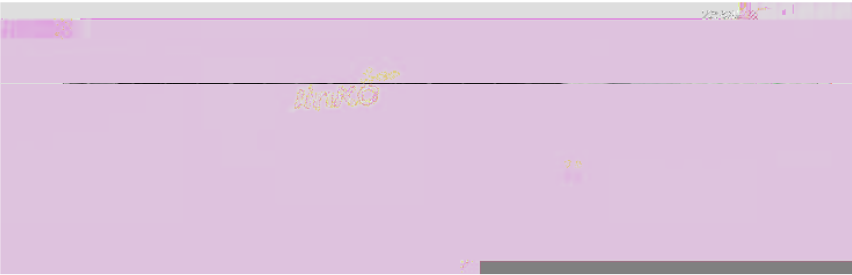
Circuit Diagram





Energy Storage Container Configuration

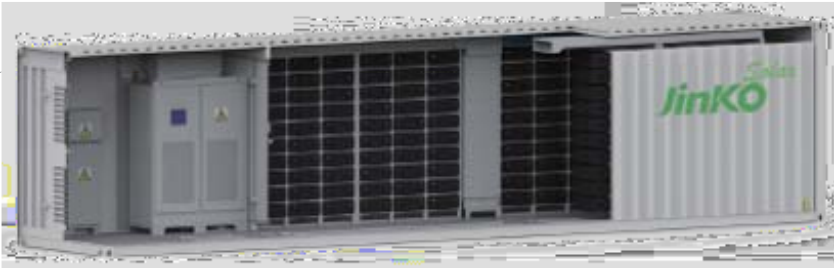
System could be designed according to different Pack/Rack combination.



Rated Voltage	665.6V	729.6V	716.8V
Operating voltage range	582.4-748.8V	638.4-820.8V	627.2-806.4V
Operating ambient temperature range	-20 45		
DC efficiency	94% (Max)		
Altitude	≤ 2000m/≤ 5000m		
Cycle life	4000 25 1C 80%DOD EOL 80% ,6000 25 1C 60%DOD EOL 70% 4000 25 , 1C charge/discharge, 80%DOD, EOL 80% , 6000 25 , 1C charge/discharge, 60%DOD, EOL 70%		
Calendar life	10 years		
Rated charge/discharge C rate	≤ 1C	≤ 0.5C	

PCS + Battery

Utility ESS System Specification



AC Rated Voltage	400V	315V	315V	315V
Rated frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
DC Rated Voltage	716.8V	716.8V	652.8V	614.4V
Connection Mode	3-phase 4-wire	3-phase 3-wire	3-phase 3-wire	3-phase 3-wire
Isolation Mode	Transformer	Transformerless	Transformer	Transformerless
Operating ambient temperature range	-20-45			
Allowable relative humidity range	5~95%non-condensing			
Altitude	≤ 2000m			
Cycle life	4000 25 , 1C charge/discharge, 80%DOD, EOL 80% , 6000 25 , 1C charge/discharge, 60%DOD, EOL 70%			
Calender life	10 Years			
AC Efficiency	≥ 88%			
Protection Degree	IP54			
20 Foot high container	1	1	\	\
40 Foot high container	\	\	1	1