Utility On Grid ESS

Utilities Product Platform

1. Latest integration technology:
Utilities projects 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 density:
JESS is constantly striving for higher energy density solutions. Our latest design offers more than 5mwh of energy in a 40ft container. This is possible through selection of high energy density cell, and pack design.

3. Long product life:
We extensively model different application scenario. Together with project historical data, we are able to maximize system life design.

Multilevel protection strategy

Integrated battery platform
with safety and reliability

Rapid installation and deployment

Modular design, flexible configuration,
suitable for multiple scenarios



Application

Ancillary services

Transmission and distribution services

Behind-the-meter ployment energy management

Microgrid applications

Module

Inverter

Grid

Battery

PCS



Energy Storage Container Configuration

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



Rated Energy	2.39MWh	3.50MWh	4.0MWh
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



Power/Capacity	500kW/1MWh	1MW/1MWh	1.26MW/2.74MWh	2MW/2.21MWh
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