

ESS System



based on the design of the battery system, the inverter and the power electronics.

2. Top level

JESS is constantly evolving for the future. It is designed to handle up to 5mwh of energy in a 1000V system and pack design.

3. Long product life:

With its highly modular design, JESS can be easily expanded and upgraded.

Installation and deployment

Integrated battery planning

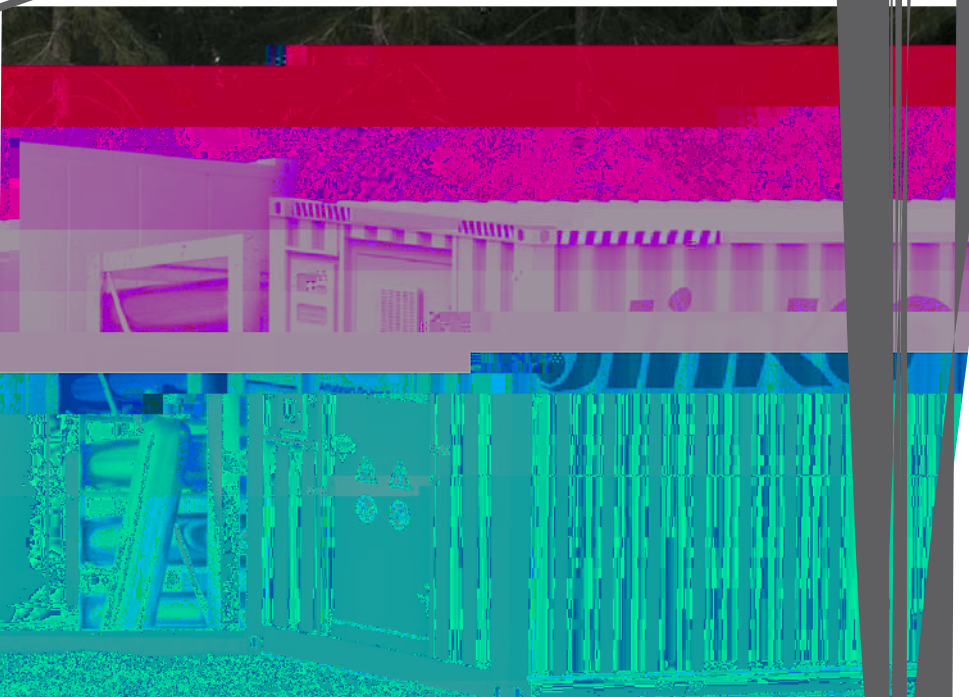
with safety and reliability

Support multiple scenarios

Battery

PCS

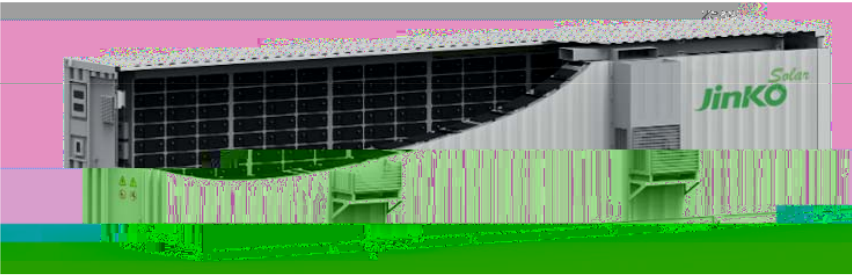
Grid





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