

Utility On Grid ESS

Utilities Product Platform

1. Latest integration technology:

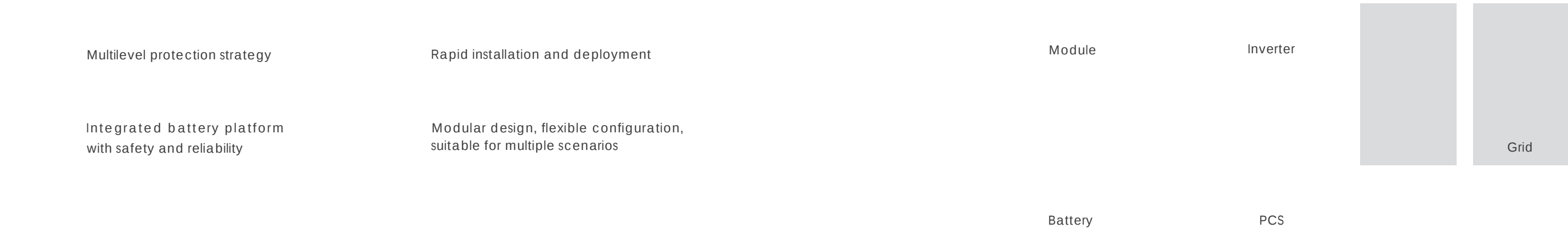
Utilities projects require fast installation and commissioning. Jinko offers standard 20ft and 40ft battery containers, as well as other modular design to ensure quick transportation and integration in the field.

2. Top level energy density:

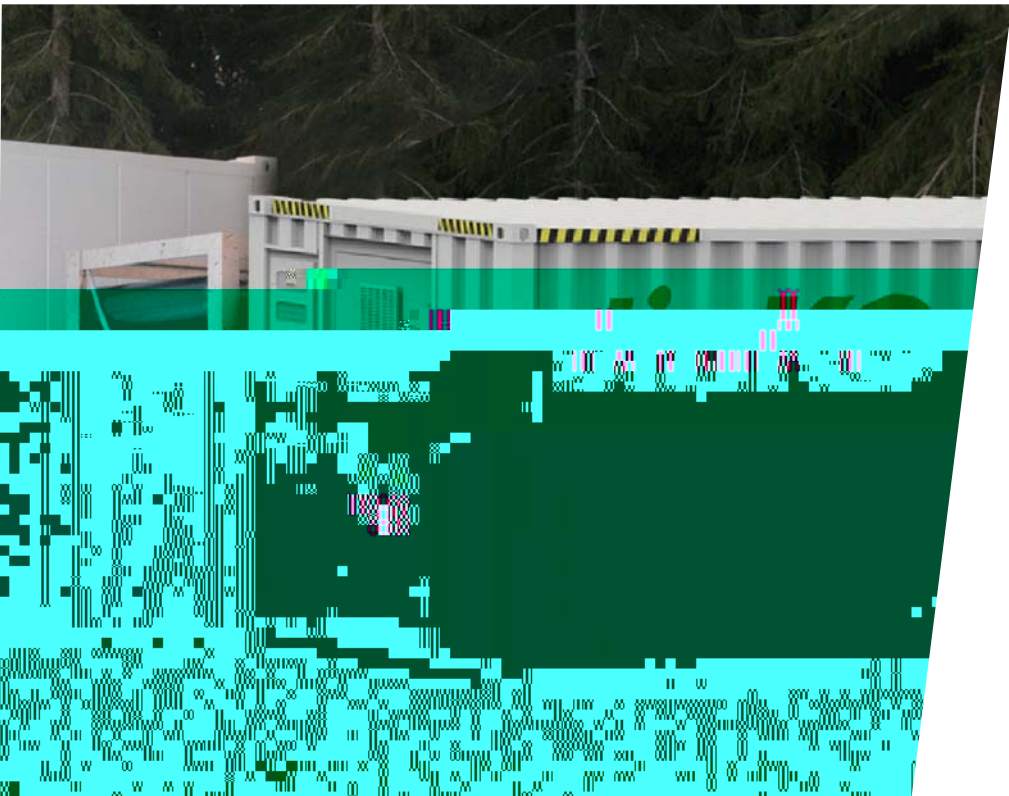
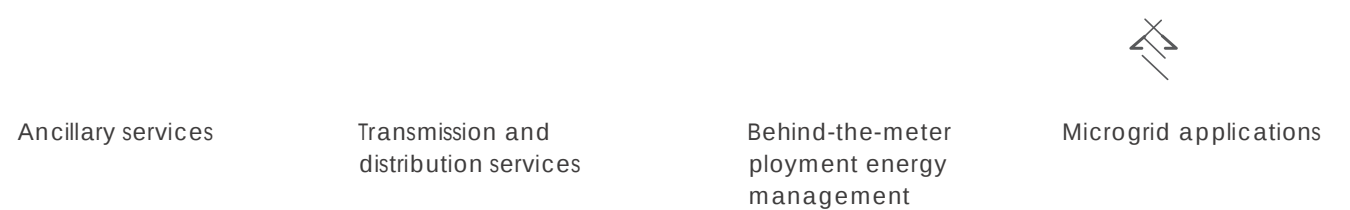
JESS is constantly striving for higher energy density solutions. Our latest design offers more than 5mwh of energy in a 40ft container. This is possible through selection of high energy density cell, and pack design.

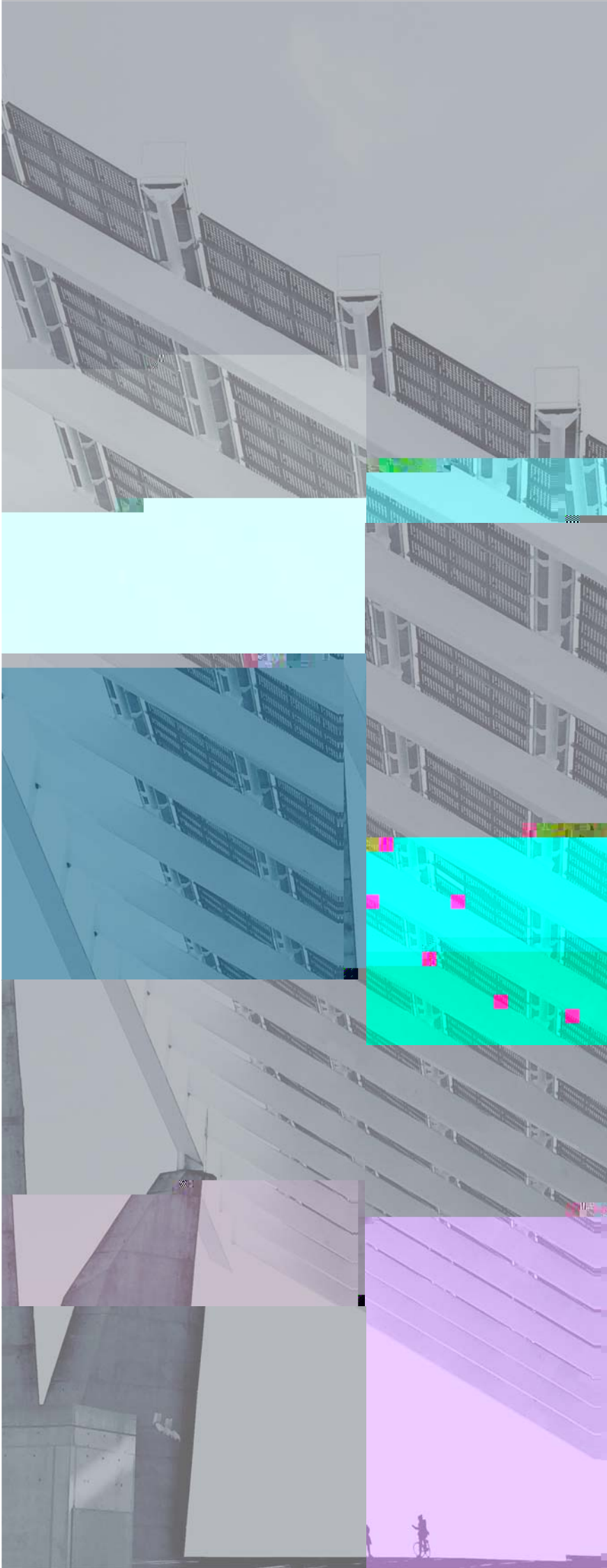
3. Long product life:

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



Application





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% , 1C charge/discharge, 80%DOD, EOL≥80%		4000 25 1C 80%DOD EOL ≥ 80% , 6000 25 1C 60%DOD EOL ≥ 70% , 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	