

Utility On Grid ESS

Utilities Product Platform

1. Latest integration technology:

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

2. Top level energy density:

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

Product life:

JESS can help you model different application scenarios. To optimize system life design, we use historical data, we use multiple scenarios.

Application

Ancillary services

Transmission and distribution services

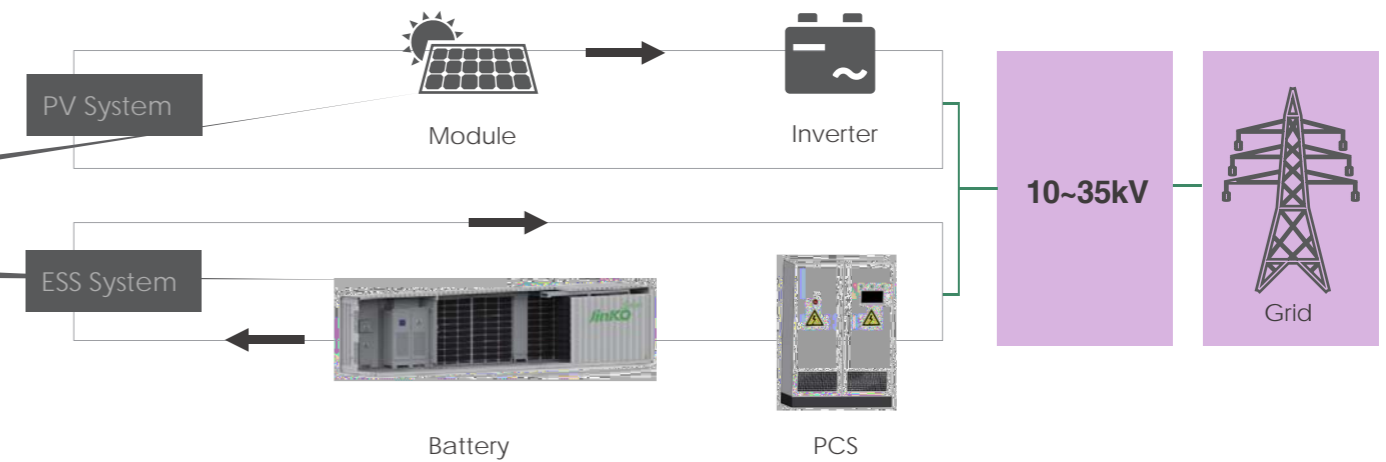


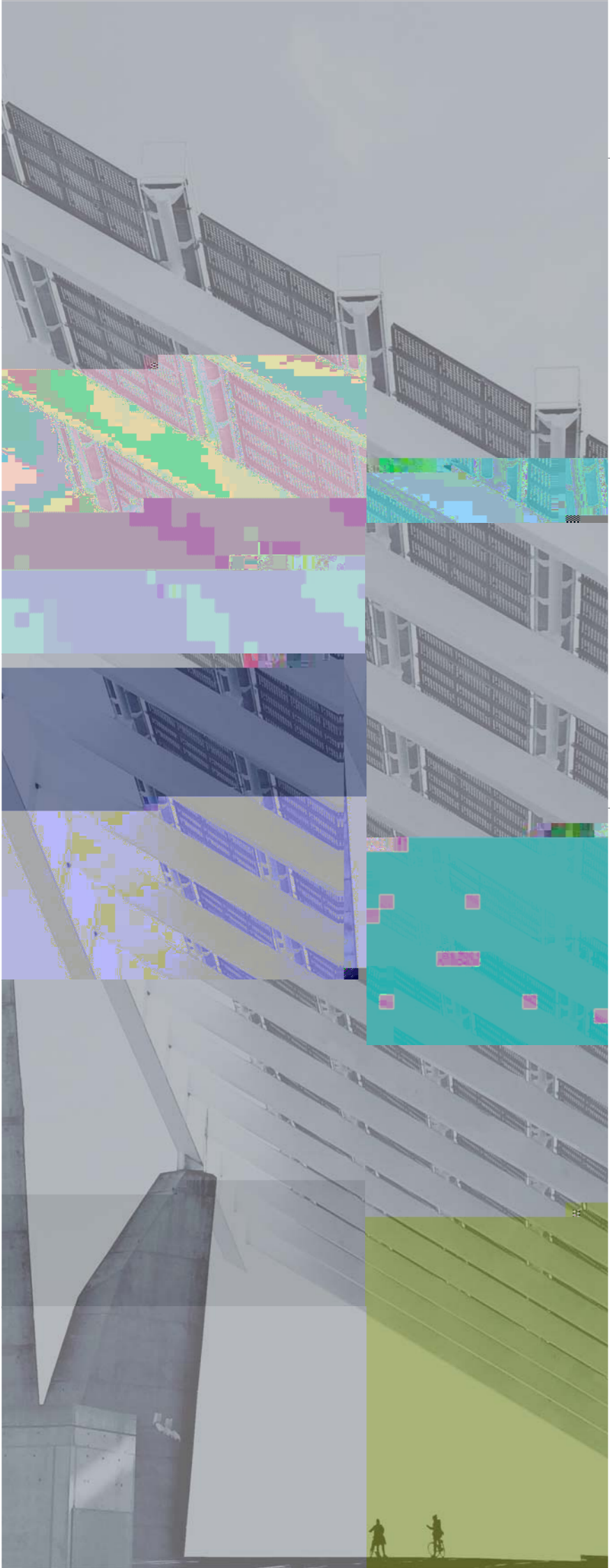
Behind-the-meter
energy management



Microgrid 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 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%			
Calendar life	10 Years			
AC Efficiency	88%			
Protection Degree	IP54			
20 Foot high container	1	1	\	\
40 Foot high container	\	\	1	1