



**Feston**  
always on

Feston Intelligent BESS

***Storing Solar Energy for a Brighter Night.***

Compact Powerhouse - 10 ft BESS Container (1 MWh | 1.5 MWh | 2 MWh)

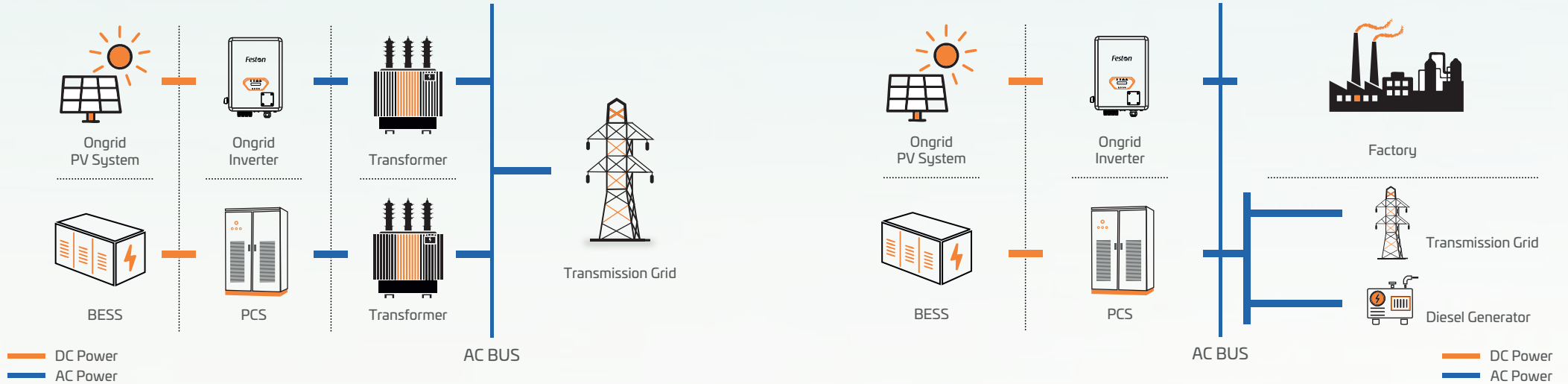
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# SOLUTION ARCHITECTURE

## AC-Coupling

*In an AC-coupled BESS architecture, the battery system is integrated on the AC side, allowing seamless coordination with the existing solar inverter.*

*Both systems work in harmony on a shared AC bus, enabling efficient charging from solar or grid power and smooth discharge during peak demand.*



### Front of the Meter

Renewable Power Plants

Renewable Energy Smoothing  
Reserves

Conventional Power Plants

Arbitrage  
Reserves  
Congestion Relief

Transmission Distribution Grids

Grid Support & Frequency Regulation  
Peak Load Management  
Congestion Relief

### Behind the Meter

Residential

Retrofitting Existing PV Plants  
Peak Load Management

Commercial & Industrial

Time-of-Use Optimization  
Microgrid & Backup Power

Off-Grid

Reserves



# BESS 10 Ft CONTAINER

## Technical Parameters

### ● PROTECTION:

IP65 pack, IP55 cabinet

### ● DURABLE:

C5 anti-corrosion, liquid-cooled

### ● EFFICIENT:

LFP 314 Ah, 0.5 C rate, 6000 cycles

### ● INTELLIGENT:

BMS with precise SOC/SOH monitoring



Product Model	1MWH	2MWH
<b>Technical Parameters</b>		
Battery Cell Specification	LFP 314Ah	
Battery Capacity	1044 kWh	2090 kWh
Pack Configuration	2P52S	
System Configuration	4P260S	8P260S
No. of Battery Containers	1	
<b>Electrical Parameters</b>		
Rated Operating Voltage	832V	
Operating Voltage Range	728V - 936V	
Voltage Range	-15% ~ 10%	-15% ~ 10%
C-Rate	0.5C	0.25C
<b>General Parameters</b>		
Operating Ambient Temperature	-30°C ~ +55°C (>45°C Derating)	
Relative Humidity	5% ~ 95%RH	
Working Altitude	≤2000m	
Communication Protocol	Modbus - TCP	
Communication Interface	Ethernet	
IP Level	IP54	
Anti Corrosion Grade	C5	
Cooling Method	Liquid Cooling	
Weight	≈28 tons	
Dimension (WxHxD)	2991*2438*2896mm	

# PCS CABINET

## Technical Parameters

- **PROTECTION:**  
IP55 Outdoor Cabinet
- **POWERFUL:**  
110% Overload Capacity
- **RELIABLE:**  
-20°C to 60°C Safe Operation

Product Model	500kW
<b>AC-Side Parameters</b>	
AC Rated power	500 kW
Overload Capacity	1.1x times
Rated Voltage	400V
AC Rated Current	720A
AC Connection	3L+N
Grid Voltage Range	400V (-15%~+15%)
AC Frequency	50/60±2.5 Hz
THDi	≤3% (full load)
AC PF	0.99/-1~1
Charge/Discharge Switching Time	<100ms
<b>General Parameters</b>	
Peak Efficiency	98.50%
Operating Temperature	-20°C to 60°C (De-rating over 50°C)
Cooling Method	Air Cooling
Humidity	0~100% (No condensing)
Max Elevation	3000m/10000ft (> 3000m/10000 ft derating)
Enclosure	IP55/NEMA3R
Size (W*H*D)	1350*1000*2100mm
Weight	1100kg

