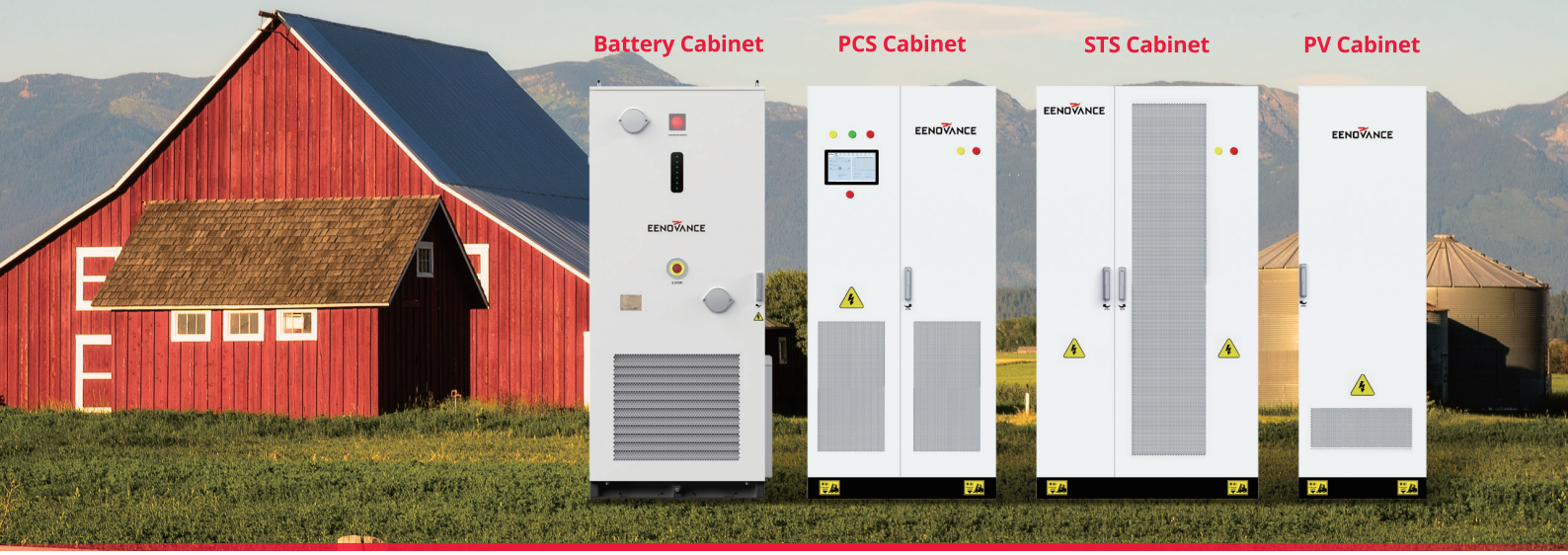
C&I ENERGY STORAGE SYSTEM

FlexCore Series

Liquid Cooling | 125 kW ~ 1 MW / 261 kWh ~ 2088 kWh

UN38.3 IEC



Features

- Use in Different Applications By Choosing Cabinets
- Intelligent EMS, Remote Monitoring and Fault Diagnosis
- Multi-Level Protection and Alarm (Gas, Water, Ventilation)
- Single Cluster Battery Management

Scenarios


Industrial Parks


Commercial Parks


Livestock Farms


Farms


Manufacturing Bases

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DATASHEET

Model	FlexCore 125kW-261kWh		FlexCore 250kW-522kWh		FlexCore 500kW-1044kWh		FlexCore 1000kW-2088kWh	
System Composition								
Electrical cabinet	Includes PCS / MPPT / STS / ATS, 1200 × 1100 × 2100 mm, 1110 kg	1 set	Includes PCS / STS / ATS, 1300 × 1100 × 2100 mm, 1700 kg	1 set	Includes STS / ATS etc., 950 × 900 × 2100 mm, 600 kg	1 set	Includes STS / ATS etc., 1500 × 1000 × 2100 mm, 800 kg	1 set
PCS (PCS cabinet)	125 kW isolated type, built into electrical cabinet	/	250 kW isolated type, built into electrical cabinet	/	500 kW isolated type, 1300 × 1100 × 2100 mm, 2200 kg	1 set	1000 kW isolated type, 1450 × 1100 × 2100 mm, 1240 kg	1 set
MPPT (MPPT cabinet)	180 kW, built into electrical cabinet	/	360 kW, 650 × 900 × 2100 mm, 360 kg	1 set	360 kW, 650 × 900 × 2100 mm, 360 kg	2 sets	360 kW, 650 × 900 × 2100 mm, 360 kg	4 sets
Battery cabinet (optional, < 16)	261 kWh, 1000 × 1450 × 2300 mm, 2700 kg	1 set	261 kWh, 1000 × 1450 × 2300 mm, 2700 kg	2 sets	261 kWh, 1000 × 1450 × 2300 mm, 2700 kg	4 sets	261 kWh, 1000 × 1450 × 2300 mm, 2700 kg	8 sets
PV DC Input (Optional)								
Input voltage range	150-Vbat, min							
Full power MPPT voltage range	340-Vbat, min							
Maximum input voltage	1000 V							
Maximum module number	3		6		6		6	
Maximum PV power	180 kW (60 kW × 3)		360 kW (60 kW × 6)		360 kW (60 kW × 6)		360 kW (60 kW × 6)	
Single module MPPT channel number	4							
Maximum MPPT current of each channel	45 A							
Maximum MPPT power of each channel	15 kW							
Battery DC Input								
Input voltage range	728 V ~ 936 V							
Maximum charge and discharge power	0.5P							
Battery cabinet energy (single)	261 kWh							
AC Grid Connection								
Rated capacity	125 kVA		250 kVA		500 kVA		1000 kVA	
Rated AC voltage	400 V							
Rated frequency	50 / 60 Hz							
Rated output current	182 A		364 A		728 A		1456 A	
Maximum input current	364 A		364 A		728 A		1456 A	
Power factor range	-0.8 ~ 0.8							
AC connection	3W+N+PE							
AC off-grid								
Rated output power	125 kW (@ Resistive load)		250 kW (@ Resistive load)		500 kW (@ Resistive load)		1000 kW (@ Resistive load)	
Rated output voltage	400 V							
Rated output current	182 A		364 A		728 A		1456 A	
Rated frequency	50 / 60 Hz							
Basic Parameters								
Built-in isolation transformer	Yes		Yes		Yes		No	
Diesel generator connection	Yes		Yes		Yes		Yes	
IP Rating	IP54							
On-grid to off-grid switching time (with STS)	<20 ms							
Cooling method	Electrical cabinet	Intelligent air cooling						
	Battery cabinet	Intelligent liquid cooling						
Operating temperature range	-25 °C to 45 °C							
Relative humidity	0 % to 95 % (No condensation)							
Cycle Life	8,000 cycles (25 ± 2 °C, 0.5P / 0.5P, 70 % SOH)							
Compliance								
PCS Cabinet	IEC 62477 / IEC62109 / IEC 61439							
Battery Cabinet	UN 38.3 / IEC 62619 / IEC63056 / IEC61000 / IEC62477							

SYSTEM DIAGRAM (125 kW ~ 1 MW / 261 kWh ~ 2088 kWh)

