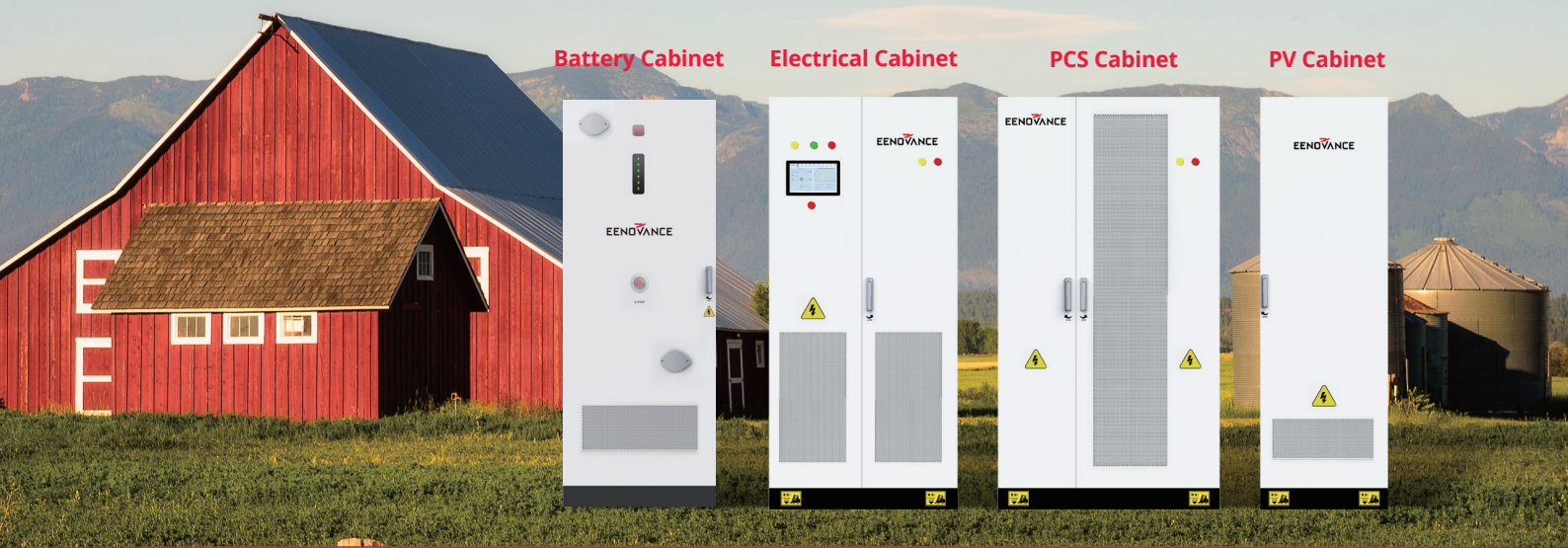


C&I ENERGY STORAGE SYSTEM

FlexCore Series

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

UN38.3 **MSDS** **IEC**



Features



Use in Different Applications
By Choosing Cabinets



Intelligent EMS, Remote Monitoring
and Fault Diagnose



Multi - Level Protection and Alarm
(Gas, Water, Ventilation)



Single Cluster Battery
Management

Scenarios



Industrial Parks



Commercial Parks



Livestock Farms



Farms



Manufacturing Bases

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*2100mm,1110kg	1 set	Includes PCS / STS/ATS, 1300*1100*2100mm,1700kg	1 set	Includes STS/ATS etc., 950*900*2100mm,600kg	1 set	Includes STS/ATS etc., 1500*1000*2100mm800kg	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*2100mm,2200kg	1 set	1000 kW isolated type, 1450*1100*2100mm,1240kg	2 set
MPPT (MPPT cabinet)	180 kW, built into electrical cabinet	/	360 kW, 650*900*2100mm,360kg	1 set	360 kW, 650*900*2100mm,360kg	2 set	360 kW, 650*900*2100mm,360kg	4 set
Battery cabinet (optional, <16)	261 kWh, 1000×1450×2300 mm, 2700kg	1 set	261 kWh,1000×1450×2300 mm, 2700kg	2 set	261 kWh,1000×1450×2300 mm, 2700kg	4 set	261 kWh,1000×1450×2300 mm, 2700kg	8 set
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 / 60Hz				
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				>0.99 (-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 / 60Hz				
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)				<20ms				
Cooling method	Electrical cabinet	Intelligent air cooling						
	Battery cabinet	Intelligent liquid cooling						
Operating temperature range				-25 ~ 45°C				
Relative humidity				0-95% (No condensation)				
Compliance								
Electrical cabinet				IEC 62477/IEC62109/IEC 61439				
Battery cabinet				UN38.3 / IEC62619 / IEC63056/IEC60730/IEC61000/IEC62477				

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

