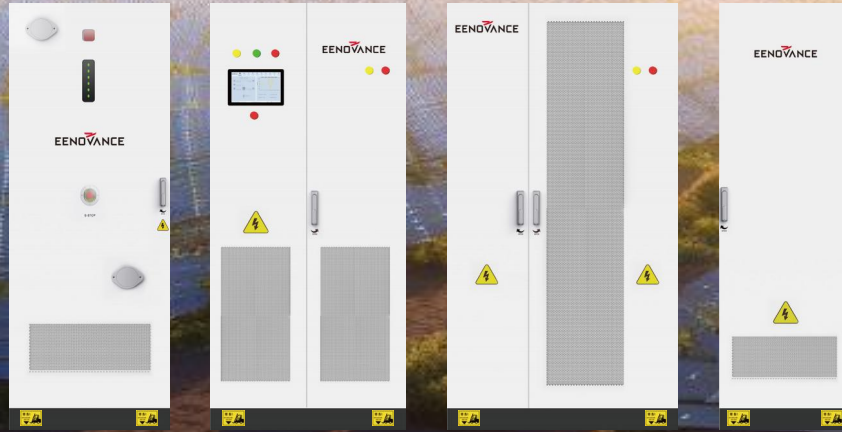


C&I ENERGY STORAGE SYSTEM



FlexCore Series

125kW~500kW/261kWh~1044kWh



Use in different applications by choosing cabinets



Intelligent EMS, remote monitoring and fault diagnose

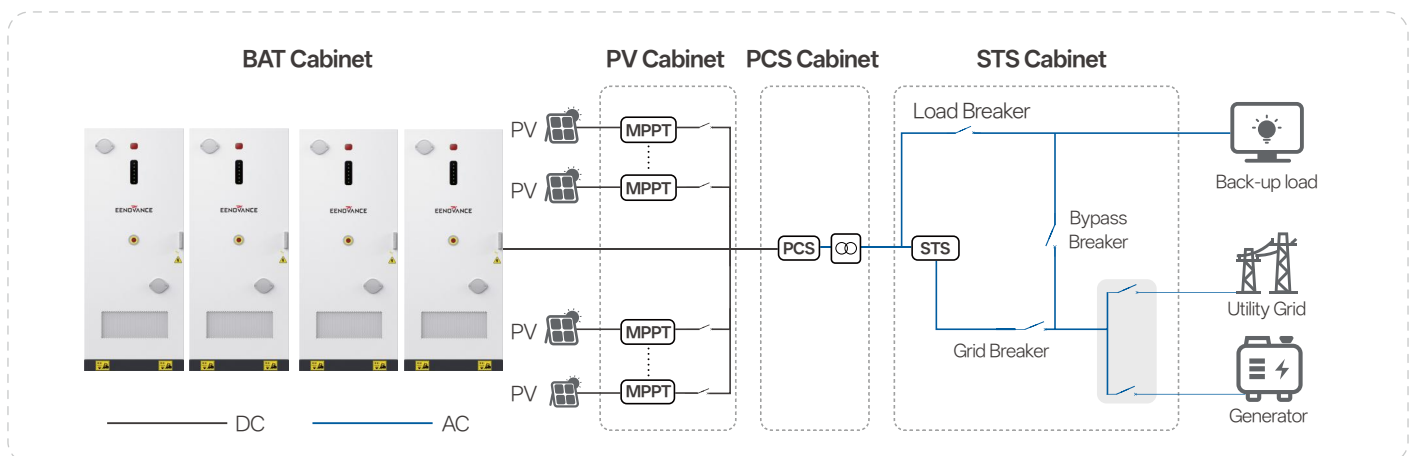


Multi-Level protection and alarm (gas, water, ventilation)



Single cluster battery management

SYSTEM DIAGRAM (FlexCore 125kW~500kW/261kWh~1044kWh)



DATASHEET

Model	FlexCore 125kW-261kWh	FlexCore 250kW-522kWh	FlexCore 500kW-1044kWh			
System Composition						
Electrical cabinet	Includes PCS / MPPT / STS, 1000×1000×1960 mm, 1.1t	1 set	Includes PCS / STS, 1200×1000×2060 mm,1.6t	1 set	Includes STS etc., 800×1000×2060 mm, 530 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, 1200×1000×2060mm, 2.1t	1 set
MPPT (MPPT cabinet)	180 kW, built into electrical cabinet	/	360 kW, 1100×900×2060 mm, 530 kg	1 set	720 kW, 1100×900×2060 mm, 680 kg	1 set
Battery cabinet(optional, <16)	261 kWh, 1000×1450×2300 mm, 2.7t	1 set	261 kWh,1000×1450×2300 mm, 2.7t	2 set	261 kWh,1000×1450×2300 mm, 2.7t	4 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		12	
Maximum PV power		180 kW (60 kW*3)		360 kW (60 kW*6)		720 kW (60 kW*12)
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
Rated AC voltage		400 V				
Rated frequency		50 / 60Hz				
Rated output current		182 A		364 A		728 A
Maximum input current		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)
Rated output voltage		400 V				
Rated output current		182 A		364 A		728 A
Rated frequency		50 / 60Hz				
Overload capacity		120%-1min				
Basic Parameters						
Built-in isolation transformer			Yes			
Diesel Generator connection			Yes			
IP Rating			IP20 / IP54			
On-grid to off-grid switching time (with STS)			<10ms			
Cooling method	Electrical cabinet	Intelligent air cooling				
	Battery cabinet	Intelligent liquid cooling				
Operating temperature range			-25 ~ 45℃			
Relative humidity			0-95% (No condensation)			
Compliance						
Electrical cabinet		IEC 62109-1 / IEC62109-2 / IEC62477-1 / IEC61000-6-2 / IEC61000-6-4 / NRS 097-2-1				
Battery cabinet		UN38.3 / IEC62619 / UL1973				