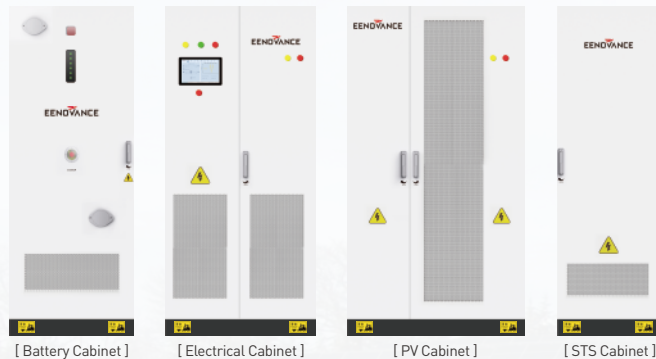


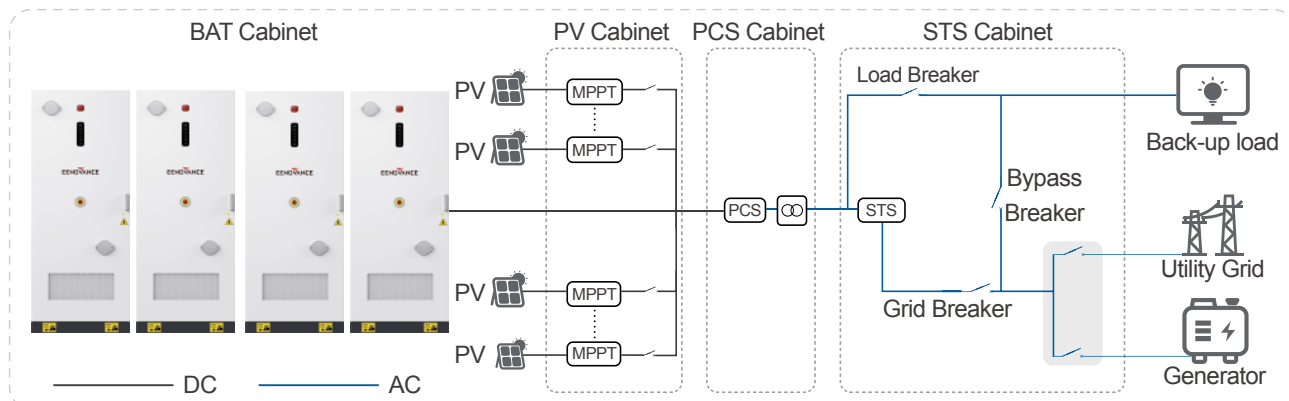
C&I ENERGY STORAGE SYSTEM



FlexCore Series 125kW-261kWh/250kW-522kWh/500kW-1044kWh

- Modular cabinet design storage system
- Use in different applications by choosing cabinets
- 52.25kWh modular design liquid cooling battery pack
- 60kW modular design MPPT
- 125kW modular design PCS
- 250kW Modular design STS
- Multi-Level protection and alarm (gas, water, ventilation)
- Intelligent EMS, remote monitoring and fault diagnose
- Single cluster battery management

SYSTEM DIAGRAM (FlexCore 500kW-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°C					
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					