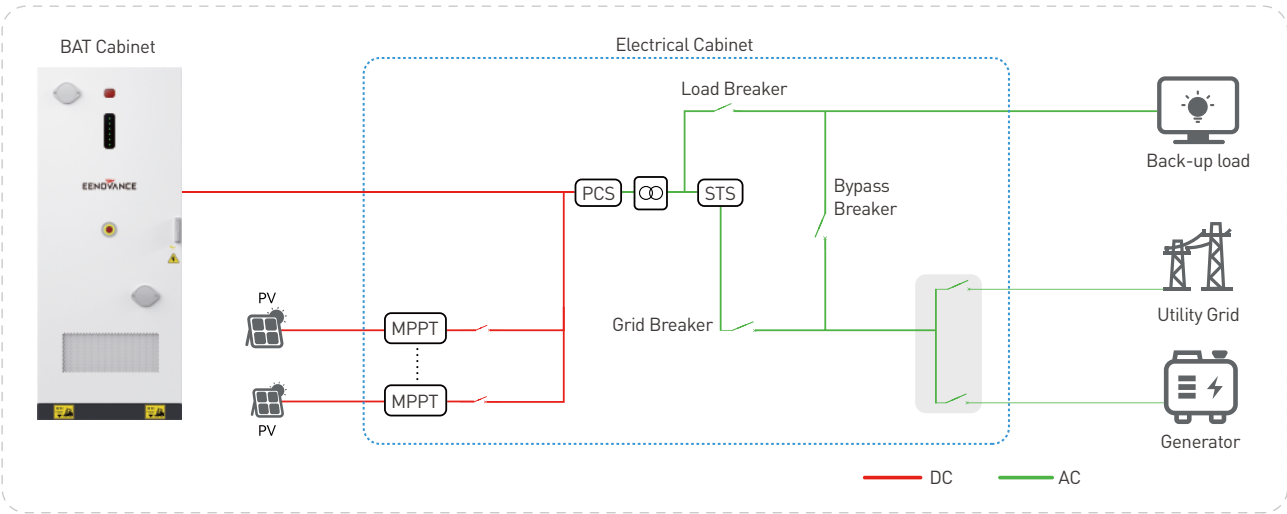
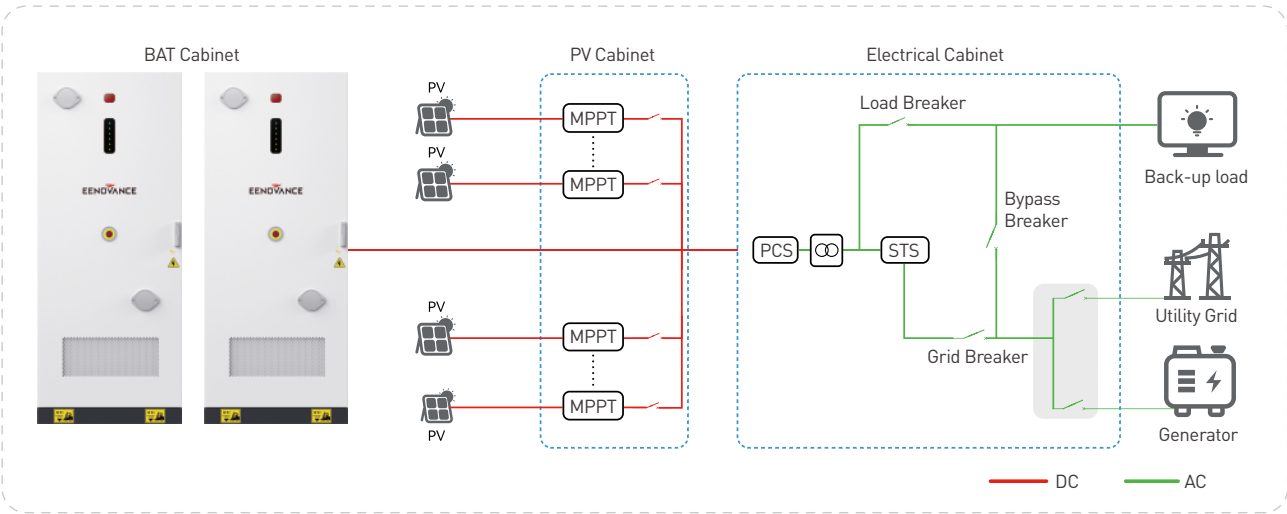


SYSTEM DIAGRAM

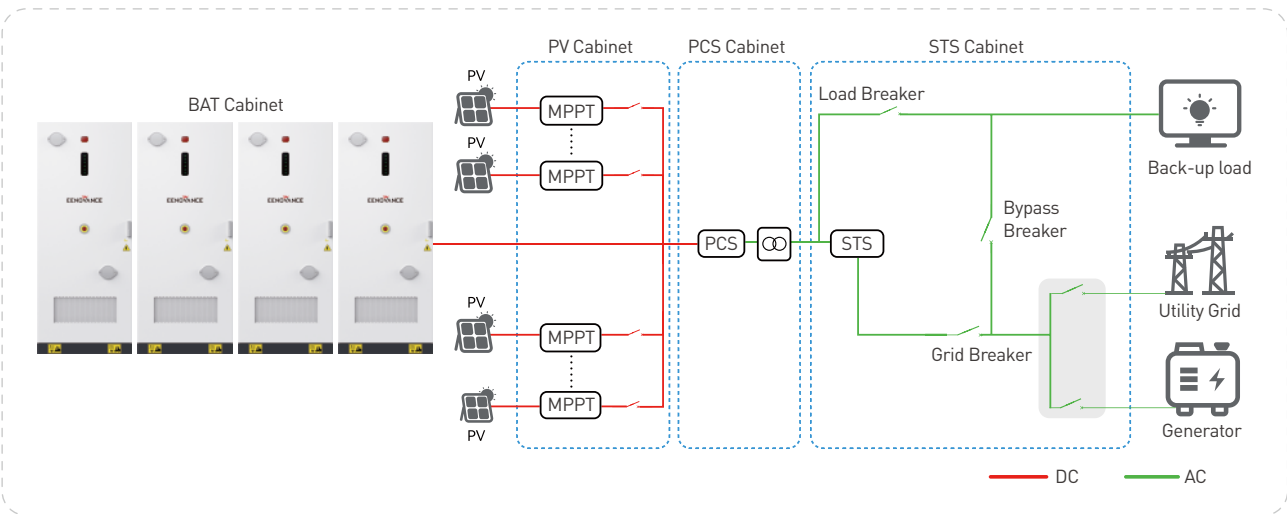
FlexCore 125kW-261kWh



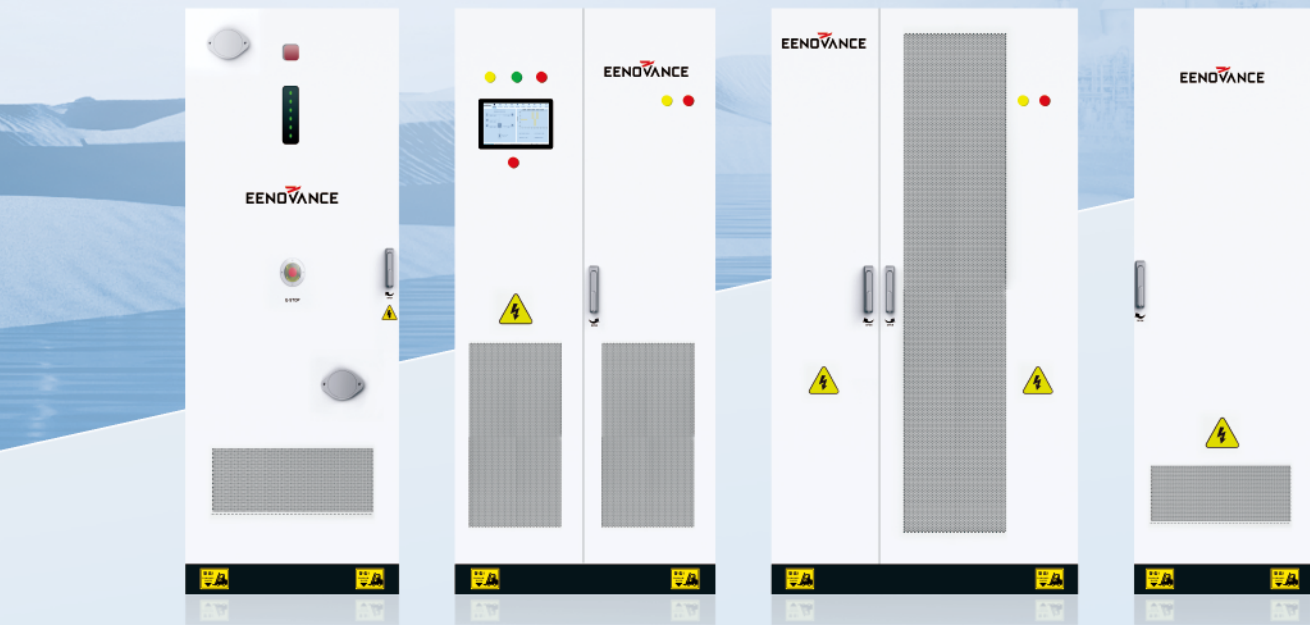
FlexCore 250kW-522kWh



FlexCore 500kW-1044kWh



Stable And Efficient
Energy Solutions
For Business



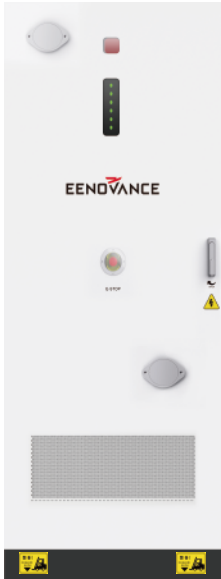
FlexCore ESS Series

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

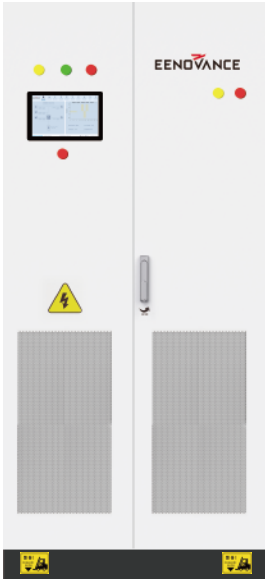


FLEXCORE ESS SERIES

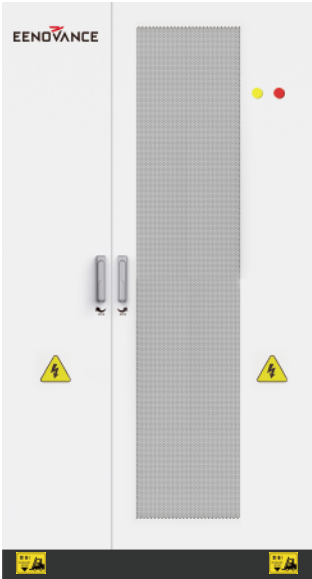
FlexCore 125kW-261kWh/250kW-522kWh/500kW-1044kWh



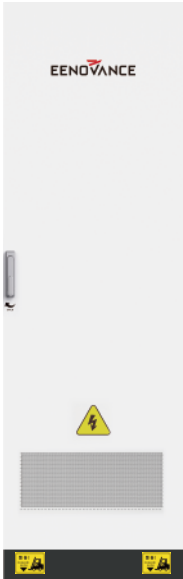
[Battery Cabinet]



[Electrical Cabinet]



[PV Cabinet]



[STS Cabinet]



Multi-Energy Complementarity

Efficiently integrates and utilizes various energy sources, including the grid, photovoltaics, energy storage, and diesel generators, to optimize energy efficiency



Flexible Scalability

Employs standardized units for battery cabinets and Maximum Power Point Tracking (MPPT) modules with a modular design, allowing flexible adaptation to applications of varying scales.



High Reliability

Supports seamless switching to ensure uninterrupted load operation during sudden grid outages. Multiple energy sources serve as mutual backups, further enhancing power supply reliability.



Safety System

Integrates multi-level warnings (gas/water fire protection exhaust) for your asset safety.

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)	250 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