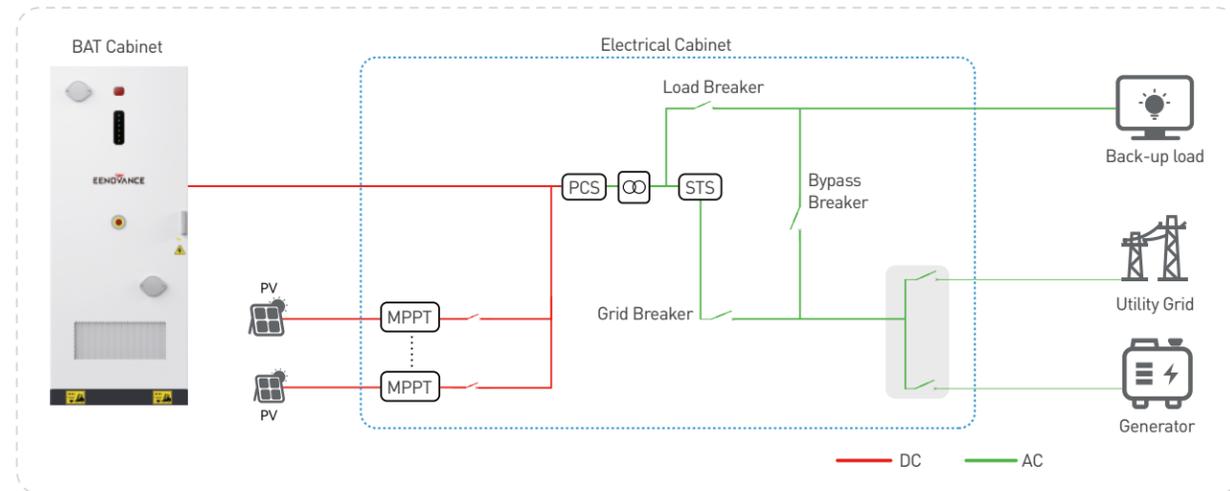
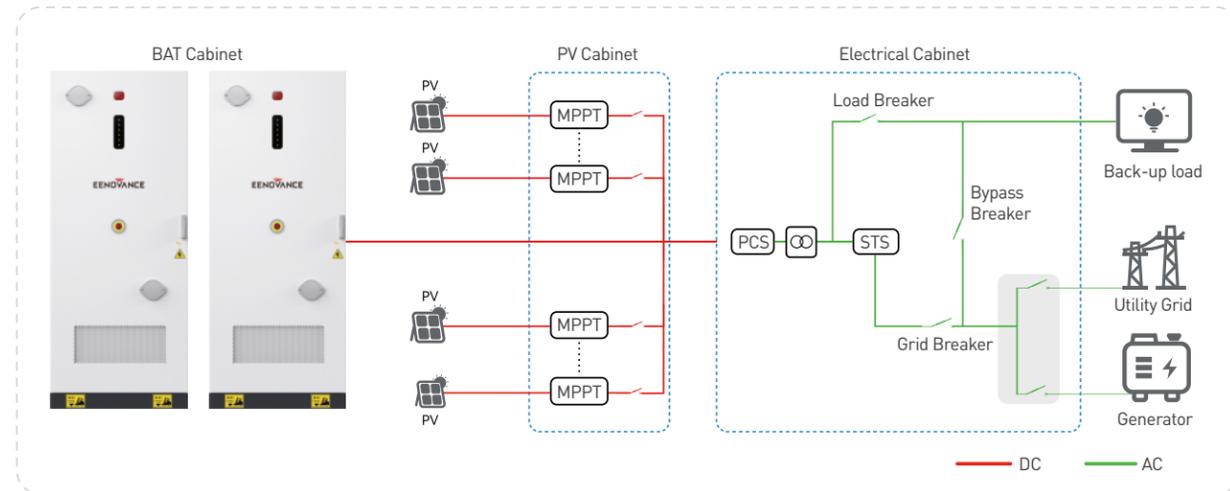


SYSTEM DIAGRAM

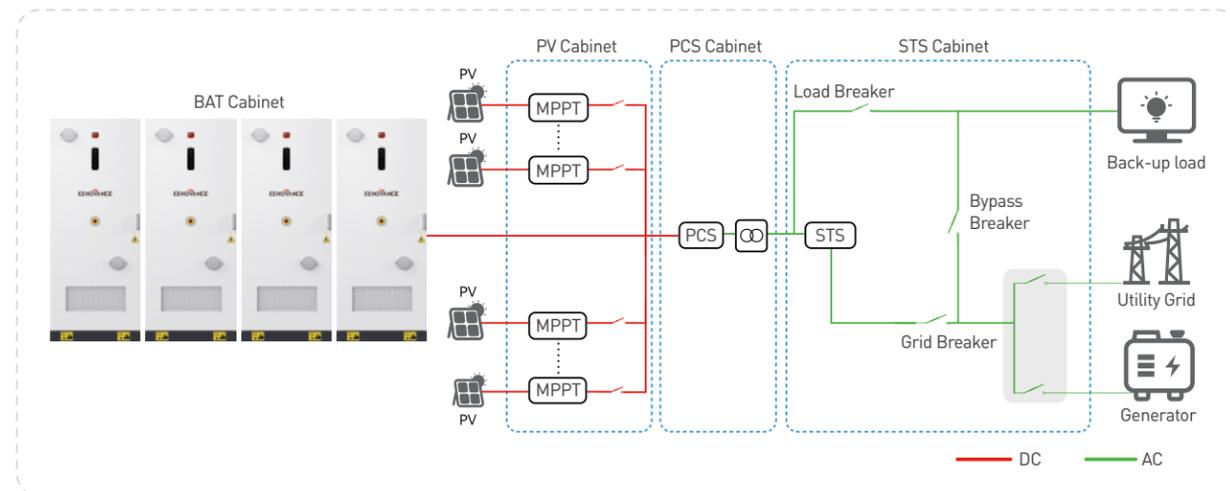
FlexCore 125kW-261kWh



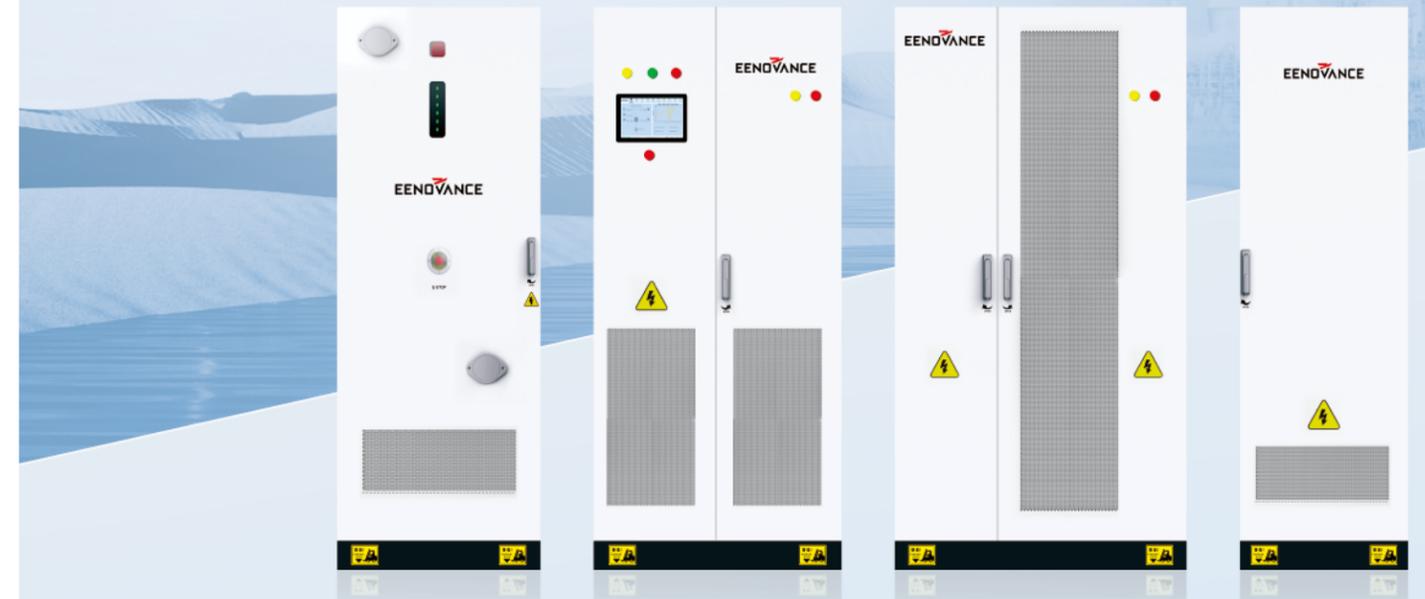
FlexCore 250kW-522kWh



FlexCore 500kW-1044kWh



Stable And Efficient Energy Solutions For Business



FlexCore ESS Series

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



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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



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.



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.



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°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					