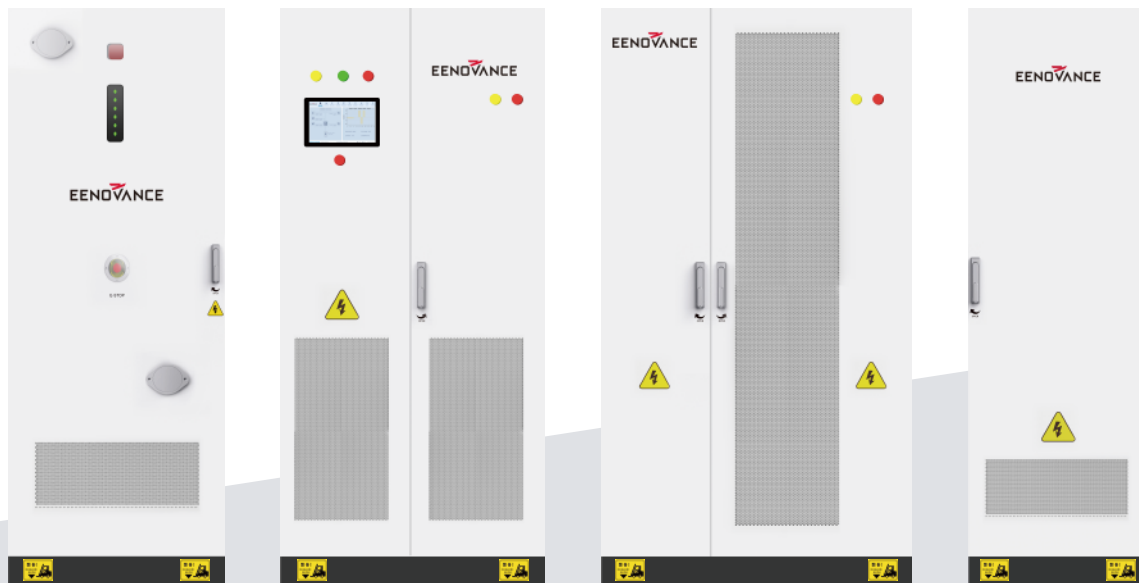


FlexCore ESS Series

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

NEW



[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
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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

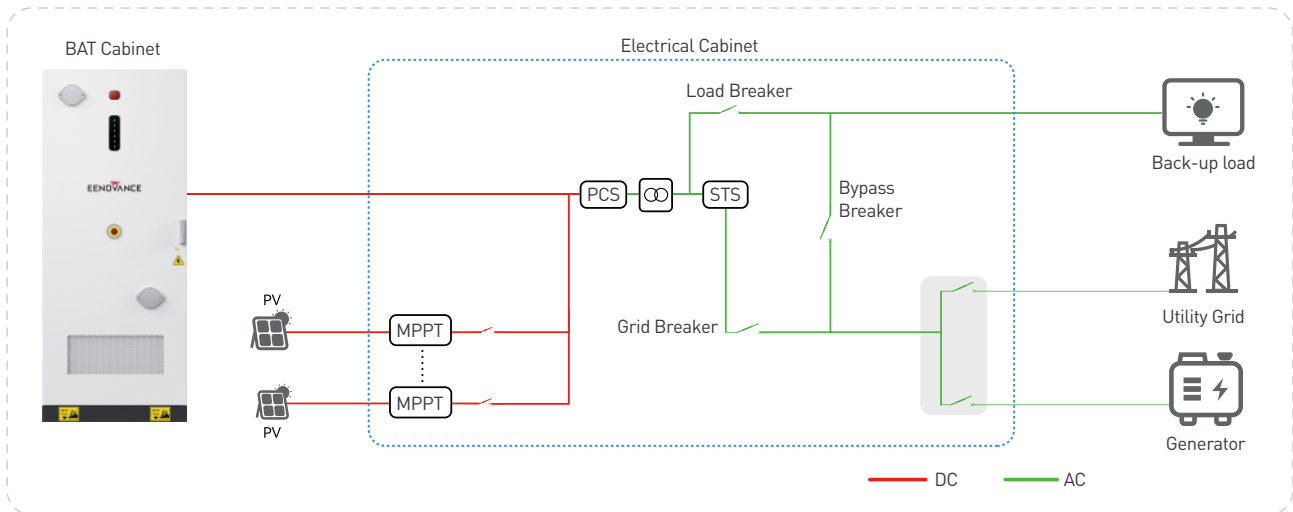
Built-in isolation transformer	Yes					
Diesel Generator connection	Yes					
IP Rating	IP20 / IP54					
On-grid to off-grid switching time (with STS)	<10ms					
Cooling method	Electrical cabinet	Intelligent air cooling				
	Battery cabinet	Intelligent liquid cooling				
Operating temperature range	-25~45°C					
Relative humidity	0-95% (No condensation)					

Compliance

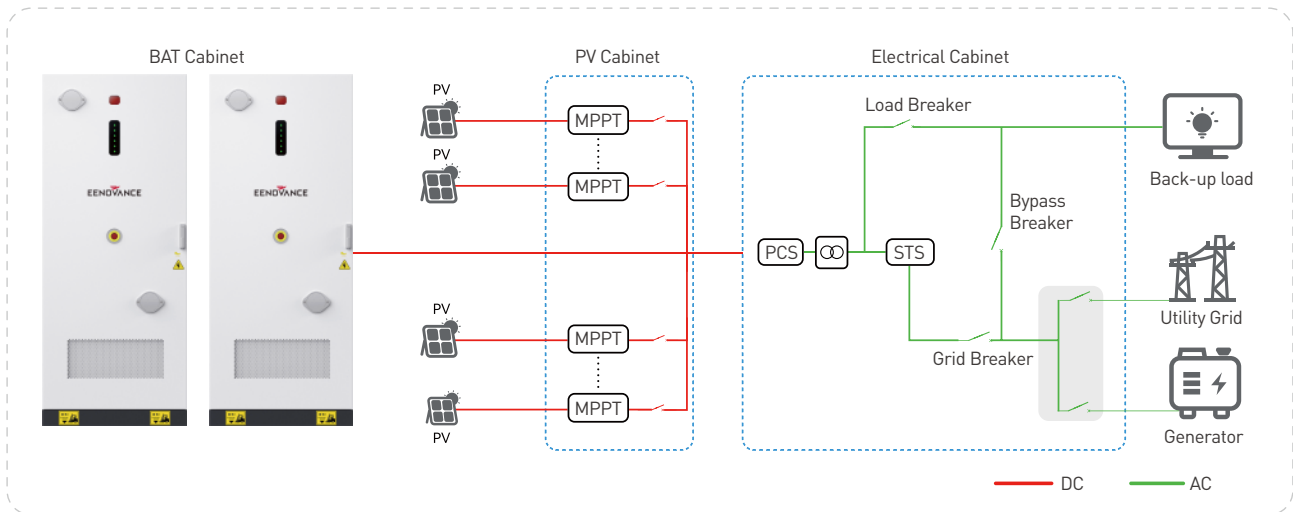
Electrical cabinet	IEC 62109-1, IEC62109-2, IEC62477-1, IEC61000-6-2, IEC61000-6-4, NRS 097-2-1					
Battery cabinet	UN38.3, IEC62619, UL1973					

System Diagram

FlexCore 125kW-261kWh



FlexCore 250kW-522kWh



FlexCore 500kW-1044kWh

