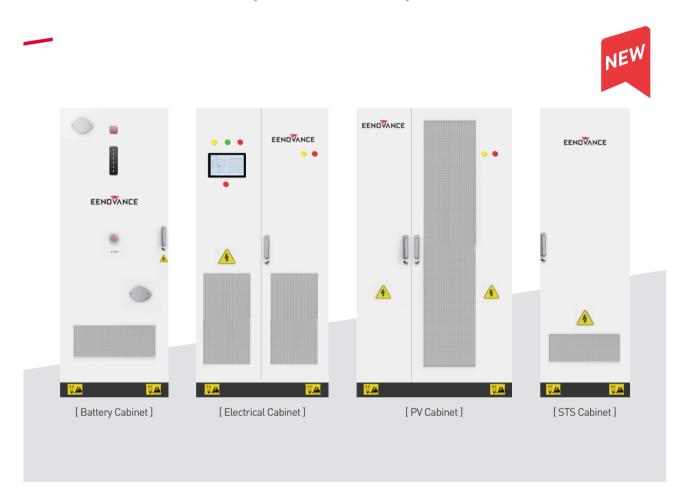


FlexCore ESS Series

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





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

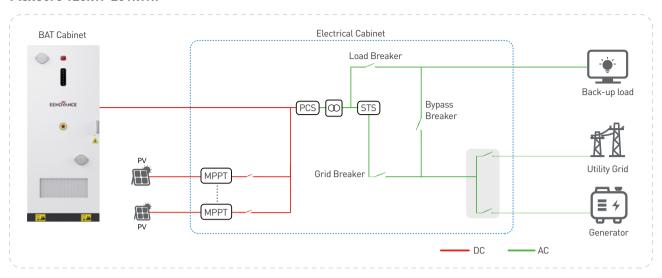
Integrates multi-level warnings (gas/water fire protection exhaust) for your asset safety.

Datasheet

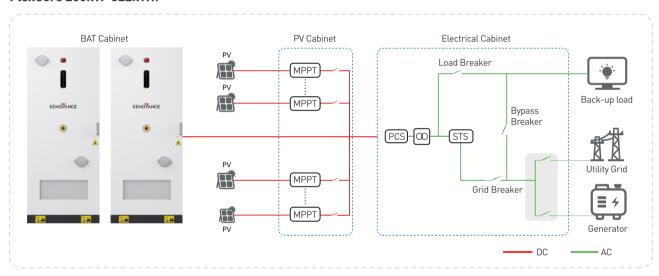
System Composition Includes PCS / MPPT / STS, 1000-1000-1900 mm, 11 1 1 1 1 1 1 1 1 1	Datasii	eet							
Includes PC MPPT / STS, 10 1 1 1 1 1 1 1 1	Model		FlexCore 125kW-261kWh		FlexCore 250kW-522kWh		FlexCore 500kW-1044kWh		
1000-1000-1920 mm, 1.1	System Cor	mposition							
Maximum Proprover 180 kW, (60 kW*3) 1800 kW,	Electrical cabine	et		1 set		1 set	,	1 se	
## Description Part Continued Part Continued Part Pa	PCS (PCS cabinet)			/		/	7.	1 set	
PV DC Input (Optional)	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	
Toput voltage range	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	
Toput voltage range	PV DC Inpu	t (Optional)							
Maximum injust voltage 10000 V	Input voltage range		150-Vbat, min						
Maximum PV power 180 kW [60 kW*3] 360 kW (60 kW*6] 720 kW [60 kW*12]	Full power MPP	T voltage range	340-Vbat, min						
Maximum MPV power	Maximum input	voltage			1000 V				
Single module MPT	Maximum module number		3 6			12			
Channel number	Maximum PV po	wer	180 kW (60 kW*3)		360 kW (60 kW*6)		720 kW (60 kW*12)		
Maximum MPPT preference of each channel 45 A Maximum MPPT preference of each channel 15 kW Battery DC Input Imput vottage range of discharge power 0.5P Maximum charge and discharge power 0.5P Battery cabinet == registry (single) 261 kWh AC Grid Contection Rated Ac Votage Ac Ac Votage Ac	Single module MPPT		4						
## AS A Maximum MPT power of each channel	channel number Maximum MPPT current of								
Battery DC Input			45 A						
Input voltage range	Maximum MPPT power of each channel		15 kW						
Maximum charge and discharge power 261 kWh	Battery DC	Input							
Satery power Satery cabinet energy (single) Sc1 kWh	Input voltage range		728 V - 936 V						
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 1456 A Power factor range 50,99 (-0.8-0.8) AC connection 3W+N+PE AC off-grid Rated output power 125 kW (@ Resistive load) 250 kW (@ Resistive load) 25	Maximum charge and discharge power		0.5P						
Rated capacity 125 kVA 250 kVA 500 kVA Rated AC voltage 400 V 400 V Rated nequency 50 / 60Hz 728 A 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] 400 V AC connection 3W+N+PE 3W+N+PE AC off-grid 400 V 814 A 728 A Rated output power 125 kW [@ Resistive load] 250 kW [@ Resistive load] 250 kW [@ Resistive load] Rated output vottage 400 V 400 V 81 A 728 A			261 kWh						
Rated AC voltage 400 V Rated frequency 50 / 60 Hz 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) 3W+N+PE AC connection 3W+N+PE AC connection 250 kW (@ Resistive load) 250 kW (@ Resistive load) Rated output power 125 kW (@ Resistive load) 250 kW (@ Resistive load) 250 kW (@ Resistive load) Rated output votrent 182 A 364 A 728 A Rated output current 182 A 364 A 728 A Rated frequency 50 / 60Hz 50 / 60Hz Overload capacity 120%-1min 120%-1min Basic Parameters Built-in isolation transformer Yes Diesel Generatoronection Yes IP Rating IP20 / IP54 On-grid to off-grid to	AC Grid Co	nnection							
Rated frequency 50 / 60Hz Rated output current 182 A 364 A 728 A 1456 A Power factor range 304 A 728 A 1456 A Power factor range 304 N+N+PE AC off-grid Rated output power 125 kW (@ Resistive load) 250 kW (@ Resistive load) 250 kW (@ Resistive load) 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 Diesel Generator sonection Yes Diesel Generator sonection Yes Diesel Generator sonection Yes Diesel Generator sonection Yes 10ms <th col<="" th=""><th colspan="2">Rated capacity</th><th colspan="2">125 kVA</th><th colspan="2">250 kVA</th><th colspan="2">500 kVA</th></th>	<th colspan="2">Rated capacity</th> <th colspan="2">125 kVA</th> <th colspan="2">250 kVA</th> <th colspan="2">500 kVA</th>	Rated capacity		125 kVA		250 kVA		500 kVA	
Rated output current 182 A 364 A 728 A Maximum input current 364 A 728 A 1456 A Power factor range 30.99 [-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 current 182 A 364 A 728 A Rated output current 182 A 364 A 728 A Rated frequency 50 / 60Hz 50 / 60Hz 50 / 60Hz 50 / 60Hz 60 /	Rated AC voltage		400 V						
Maximum input current 364 A 728 A 1456 A Power factor range >0.99 [-0.8-0.8] AC connection AC connection 3W+N+PE AC off-grid AC off-grid Rated output power 125 kW [@ Resistive load] 250 k	Rated frequency		50 / 60Hz						
Power factor range	Rated output current		182 A		364 A		728 A		
AC connection AC off-grid Rated output power 125 kW (@ Resistive load) 250 kW (@ Colleded) 250 kW (@	Maximum input current		364 A		728 A		1456 A		
AC off-grid Rated output power 125 kW (@ Resistive load) 250 kW (@ Res									
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 IPRating 1P20 / IP54 On-grid to off-grid switching time (with STS) 10ms Cooling method Electrical cabinet Battery cabinet 1ntelligent liquid cooling Operating temperature range -25-45°C Relative humidity 0-95% (No condensation) Compliance Electrical cabinet IEC 62109-1, IEC 62109-2, IEC 62477-1, IEC 61000-6-2, IEC 61000-6-4, NRS 097-2-1	AC connection				3W+N+PE				
Rated output voltage	AC off-grid								
Rated output current 182 A 364 A 728 A Rated frequency Overload capacity 120%-1min Basic Parameters Built-in isolation transformer Diesel Generator connection PRating On-grid to off-grid switching time (with STS) Cooling method Electrical cabinet Battery cabinet Diesel Generator connection 182 A 364 A 728 A 72			125 kW (@ Resistive load)		250 kW (@ Resistive load)		250 kW (@ Resistive load)		
Rated frequency 50 / 60Hz Overload capacity 120%-1min Basic Parameters Built-in isolation transformer Yes Diesel Generator connection Yes IP Rating 1P20 / IP54 On-grid to off-grid switching time (with STS) 10ms Cooling method 1 Electrical cabinet 1 Intelligent air cooling 1 Intelligent liquid cooli	Rated output voltage		400 V						
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 Battery cabinet Intelligent air cooling Operating temperature range -25-45°C Relative humidity 0-95% (No condensation) Compliance Electrical cabinet IEC 62109-1, IEC 62109-2, IEC 62477-1, IEC 61000-6-2, IEC 61000-6 4, NRS 097-2-1	Rated output current						728 A		
Basic Parameters Built-in isolation transformer Diesel Generator connection Yes IP Rating On-grid to off-grid switching time (with STS) Cooling method Electrical cabinet Diesel Generator connection Yes 1P20 / IP54 10ms 10ms Intelligent air cooling Diesel Generator connection Intelligent liquid cooling Operating temperature range Poperating temperature range Relative humidity Compliance Electrical cabinet IEC 62109-1, IEC 62109-2, IEC 62477-1, IEC 61000-6-2, IEC 61000-6-4, NRS 097-2-1									
Built-in isolation transformer Diesel Generator connection IP Rating On-grid to off-grid switching time (with STS) Cooling method Electrical cabinet Battery cabinet Diesel Generator connection IP20 / IP54 Clums Intelligent air cooling Intelligent liquid cooling Operating temperature range Compliance Electrical cabinet IEC 62109-1, IEC 62109-2, IEC 62477-1, IEC 61000-6-2, IEC 61000-6-4, NRS 097-2-1	Overload capaci	ty			120%-1min				
Diesel Generator connection IP Rating On-grid to off-grid switching time (with STS) Cooling method Electrical cabinet Battery cabinet Operating temperature range Relative humidity Compliance Electrical cabinet Intelligent liquid cooling Operating temperature range Operating t	Basic Para	meters							
IP Rating On-grid to off-grid switching time (with STS) Cooling method Battery cabinet Operating temperature range Relative humidity Compliance Electrical cabinet IP20 / IP54 IP20 / IP54 IP20 / IP54 IP20 / IP54 IP20 / IP54 IP20 / IP54 IP20 / IP54 IP20 / IP54 IP20 / IP54 IP20 / IP54 IP20 / IP54 IP30 / IP54 IP3	Built-in isolation transformer		Yes						
On-grid to off-grid switching time (with STS) Cooling method Battery cabinet Operating temperature range Relative humidity Compliance Electrical cabinet Electrical cabinet Electrical cabinet Intelligent air cooling Intelligent liquid cooling Operating temperature range -25~45°C Relative humidity O-95% (No condensation) Compliance Electrical cabinet Electrical cabinet	Diesel Generator connection		Yes						
time (with STS) Cooling method Electrical cabinet Battery cabinet Intelligent air 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	IP Rating		IP20 / IP54						
Cooling method 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	On-grid to off-grid switching time (with STS)		<10ms						
Battery cabinet Intelligent liquid cooling	Cooling mothed		Intelligent air cooling						
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	Cooling method	Battery cabinet	Intelligent liquid cooling						
Compliance Electrical cabinet IEC 62109-1, IEC62109-2, IEC62477-1, IEC61000-6-2, IEC61000-6 4, NRS 097-2-1	Operating temperature	erature range			-25~45°C				
Electrical cabinet IEC 62109-1, IEC62109-2, IEC62477-1, IEC61000-6-2, IEC61000-6 4, NRS 097-2-1	Relative humidit	ty			0-95% (No condensation)				
	Compliance	е							
Battery cabinet UN38.3, IEC62619, UL1973	Electrical cabine	et	IEC 62109-1, II	EC621	09-2 , IEC62477-1, IEC61000-6-2, IEC	261000	0-6 4, NRS 097-2-1		
	Battery cabinet				UN38.3, IEC62619, UL1973				

System Diagram

FlexCore 125kW-261kWh



FlexCore 250kW-522kWh



FlexCore 500kW-1044kWh

