IES Flex ESS Series

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.



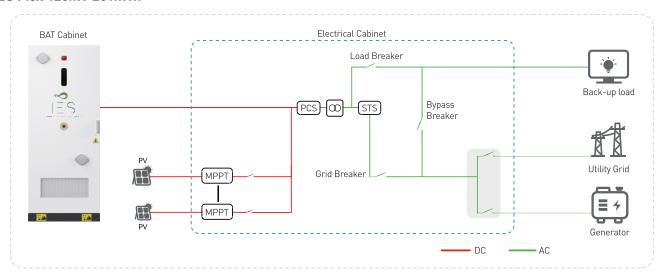
Safety System

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

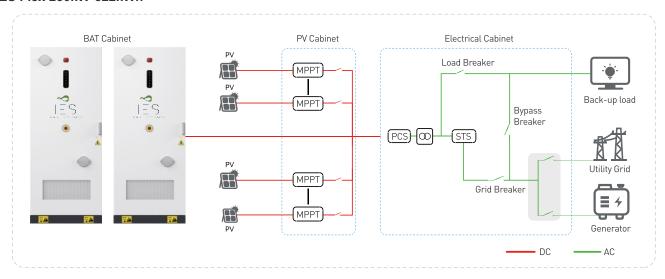
Model		IES Flex 125kW-261k	Wh	IES Flex 250kW-522kV	۷h	IES Flex 500kW-1044k	Wŀ
System Co	mposition						
Electrical cabine	et	Includes PCS / MPPT / STS, 1000×1000×1960 mm, 1.1t	1 set	1200×1000×2060 mm,1.6t	1 set	Includes STS etc., 800×1000×2060 mm, 530 kg	1 s
PCS (PCS cabine	et)	125 kW isolated type, built into electrical cabinet	/	250 kW isolated type, built into electrical cabinet	/	500 kW isolated type, 1200×1000×2060mm, 2.1t	1 s
MPPT (MPPT cal	binet)	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 s
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 9
PV DC Inpu	t (Optional)						
nput voltage rai	nge			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	45 A					
Maximum MPPT power of each channel		15 kW					
Battery DC	Input						
nput voltage rai	nge			728 V - 936 V			
Maximum charg	e and						
lischarge power		0.5P					
Battery cabinet				261 kWh			
AC Grid Co	nnection						
Rated capacity		125 kVA		250 kVA		500 kVA	
Rated AC voltage	e			400 V			
ated frequency				50 / 60Hz			
Rated output current		182 A		364 A		728 A	
Maximum input current		364 A		728 A		1456 A	
Power factor ran	nge			>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 capaci	ty			120%-1min			
Basic Paraı	meters						
Built-in isolatior	n transformer			Yes			
Diesel Generator connection		Yes					
P Rating				IP20 / IP54			
On-grid to off-grid switching time (with STS)		<10ms					
Cooling method	Electrical cabinet	Intelligent air cooling					
Journal meniod	Battery cabinet	Intelligent liquid cooling					
Operating tempe	erature range			-25~45°C			
Relative humidit	ty			0-95% (No condensation)			
Compliance	e						
Electrical cabine	et	IEC 62109-1, I	EC621	109-2 , IEC62477-1, IEC61000-6-2, IEC	6100	D-6 4, NRS 097-2-1	
Battery cabinet				UN38.3, IEC62619, UL1973			

System Diagram

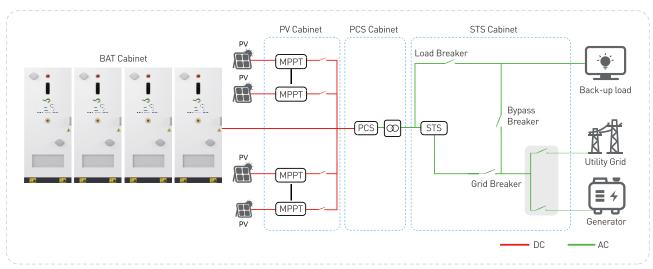
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