

Energy Storage System

Ener Hexon® Matrix 3450 Centralized Medium Voltage Converter System is highly integrated with PCS, dry transformer, high voltage ring cabinet, fire protection system, lighting system and grounding system, which requires smaller room and makes transportation, hoisting, installation, operation and maintenance more convenient and efficient.

Ener Hexon® Matrix3450



Features

■ Smart

- PQ, VF, SVG, VSG and other functions supports high/low voltage crossing;
- Fast power dispatching, off-grid operation and "black start" power grid adaptability;
- Support two groups of batteries, independent charge and discharge management, more battery friendly.

■ Highly integrated

- Reasonable and efficient layout to improve space utilization;
- Secondary loop integration, unified measurement, protection and communication;
- All-in-one design for easier transportation, hoisting, installation, operation and maintenance.

■ Efficient and stable

- Adapt to the harsh environment such as extreme temperature, humidity, altitude and salt spray;
- Smart multistage fan speed regulation, wide temperature control, 50°C without derating, high system stability;
- Three-level topology with maximum 99% conversion efficiency.

■ Target users

- Multiple ESS application scenarios on generation side, grid side and user side.

Technical Parameters

Type	Name	Parameters	Remarks
AC Parameters	Rated power[kW]	3450	
	Maxi. Rated power[kW]	3795	
	Rated voltage[V]	690	
	Rated grid voltage[kV]	10~35	
	Rated grid frequency[Hz]	50/60	
	THD (Rated power)	<1.5%	
	Power factor	-1 (leading)~1 (lagging)	
DC Parameters	Maxi. output voltage[V]	1500	
	Maxi. DC current[A]	3872	
	Battery pack voltage range[V]	1000~1500	
	Maxi. battery pack connections	2	
System Parameters	Maxi. efficiency	98.31%	
	Operating temperature range[°C]	-30~+60°C	
	Operating humidity range	0~100%RH	no condensing
	System communication interface	RS485/Ethernet/CAN	
Mechanical Parameters	Dimensions[W*D*Hmm]	7620*2896*2438	
	Weight[T]	~14.5	dry converter
	Ingress protection	IP54	
	Anticorrosive grade	C3	C4/C5 (optional)
Certificates	GB/T 34120、GB/T 34133、EN62477、IEC61000、IEC 62040		

■ Product continues to iterate, specifications may be updated without prior notice.

