

## Energy Storage System

Ener Hexon® Matrix 3150 String Medium Voltage Converter System is highly integrated with PCS smart ESS control cabinet, DC-DC control cabinet, transformer, high voltage ring network cabinet, fire protection system, lighting system and grounding system. A cluster of batteries corresponds to an independent DC/DC, which is suitable for wide voltage operation, realizing fine battery configuration charge and discharge management, so that PCS can work at the best efficiency point.

## Ener Hexon® Matrix3150



## Features

### ■ smart

- Support high/low voltage crossing, frequency crossing, dispatching, network adaptation;
- Fast power dispatching, off-grid operation and "black start" power grid adaptability;
- Huawei DC/DC and modular PCS with integrated power electronics technology avoid system performance problems caused by battery inconsistency;
- Each battery cluster is visible and controllable, flexible adaptation to DC side voltage, avoiding circulation, DC side protection, narrow isolation fault;
- PCS free of operation and maintenance, bipolar architecture, for strong power grid support of the system.

### ■ Target users

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

### ■ 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, 45°C without derating, high system stability;

## Technical Parameters

Type	Name	Parameters	Remarks
AC Parameters	Rated power[kW]	3150	
	Rated voltage[V]	800	
	Rated grid voltage[kV]	10~35	
	Rated grid frequency [Hz]	50/60	
	THD (Rated power)	<3%	
	Power factor	-1 (leading)~1 (lagging)	
DC Parameters	Maxi. output voltage[V]	1500	
	Maxi. DC current[A]	3321.6	
	Battery pack voltage range[V]	1075.2~1382.4	
	Maxi. battery pack connections	2	
System Parameters	Maxi. efficiency	96.93%	
	Operating temperature range[°C]	-30~+60	
	Operating humidity range	0~100%RH	no condensing
	System communication interface	RS485/ Ethernet/CAN/FC	
Mechanical parameters	Dimensions[W*D*H mm]	9125*3000*2896	
	Weight[T]	~20	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.

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