ZT-ESS-F261kWh

- Three-tier architecture BMS management system.

- 125kW energy storage inverter, with the option of an STS (Static Transfer Switch),It can quickly and automatically switch between grid-connected and off-grid modes.

- Outdoor energy storage cabinet with an ingress protection rating of IP55, including a liquid cooling system, a fire protection system, etc.

- Energy Management System (EMS), including a cloud platform and a local dispatch manager.

- Employs advanced and efficient MPPT technology that intelligently optimizes photovoltaic array output. Precisely track max power points in real-time, significantly enhancing energy capture efficiency. Features wide voltage range characteristics, adapting to diverse component configurations, supporting multiple independent MPPT channels to effectively increase photovoltaic self-consumption ratios. Through DC coupling technology between photovoltaic panels and batteries, further elevates energy conversion efficiency, shortening investment return periods.

Model	ZT-ESS-F261kWh
Certification	IEC62619、EN62477、EN IEC 61000-6-1/2/3/4、UN38.3、UL9540A、FCC
DC battery parameters	
Cell type	LiFePO$_4$ Battery, 3.2V/314Ah
Battery PACK configuration	1P52S/52kWh
Battery system configuration	1P260S
Battery voltage range	702-936V
Battery system capacity	Available capacity: 240kWh (Rated capacity: 261kWh)
Temperature detection	Cell + Aluminum Busbar
System Parameters	
DC side system efficiency	≥95%
Charge-discharge rate	≤0.5C
DC input protection	Load switch + Fuse
Fire protection system	Novec 1230 + Water fire protection (optional)
General Parameters	
Dimensions (Width × Depth × Height)	1000*1383*2189mm（Main body）
	1190*1460*2410mm（With packaging）
Allowable ambient temperature	-30℃～50℃（Derating when the temperature is higher than 45℃）
Allowable relative humidity	＜95%（No condensation）
Allowable altitude	3000m (Derating when the altitude is higher than 2000m)
Weight (kg)	2355±30kg/2455±30kg（With packaging）
Protection class/Ingress protection rating	IP55
Cooling method	Liquid cooling
Cycle life	8000 cycles
Communication	
Communication interface	RS485/Ethernet
Communication protocol	IEC61850/MODBUS-RTU/MODBUS-TCP