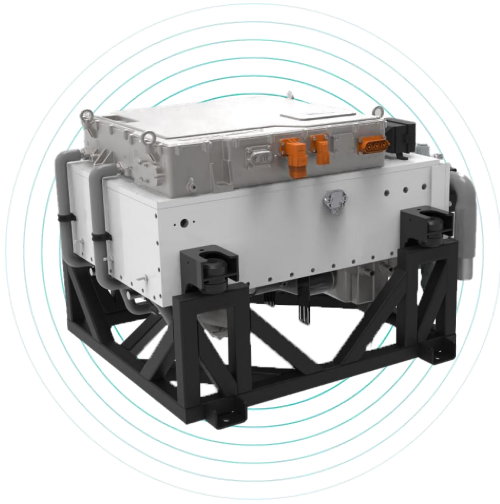


FY06-S130kW Fuel Cell Engine



High performance

Rated power 130kW



Independently developed

Customized design and development based on customer needs



Accurate and controllable

High power density and small size

Project	Parameter	Explain
System rated power (kW)	130	Working point 0.65V
Rated power of electric stack (kW)	160	Working point 0.65V
Type of stack	Proton exchange membrane fuel cell	
Electric stack board type	Graphite bipolar plate	
System rated voltage (V)	550	
System output voltage range (V)	420-700	
Control voltage range (V)	18-32	
Start time (S)	≤10	25℃
Cold start temperature (℃)	-35	
Rated efficiency	>45%	
Peak efficiency	>60%	
System operating noise (dB)	<75	
System mass (kg)	~250	Excluding heat sinks, pipelines, and cables
System volume (mm × Mm × Mm)	<1100 ×650 ×600	不Excluding heat sinks, pipelines, and cables
Cooling method	Water-cooling	
Fuel type	Hydrogen	
Purity requirements	>99.99%	Carbon monoxide free
Hydrogen inlet pressure (MPa)	1.4~1.6	Absolute pressure
Working altitude (m)	<1500	High altitude will cause a decrease in power
Working temperature (℃)	-35~45	
Service life (h)	>20000	Steady-state operating condition
Hydrogen circulation technology	Ejector	
Humidification technology	Membrane self humidification	
Product Features	Self humidifying	
Heating power (kW)	180	EOL
Rated hydrogen flow rate (g/s)	2.6	Measurement ratio 1.6
Rated air inlet flow rate (g/s)	169	Measurement ratio 2.0
Hydrogen utilization rate	>96%	
System protection	IP67	
System insulation	>1MΩ	500VDC
Hydrogen leakage rate	<50ppm	