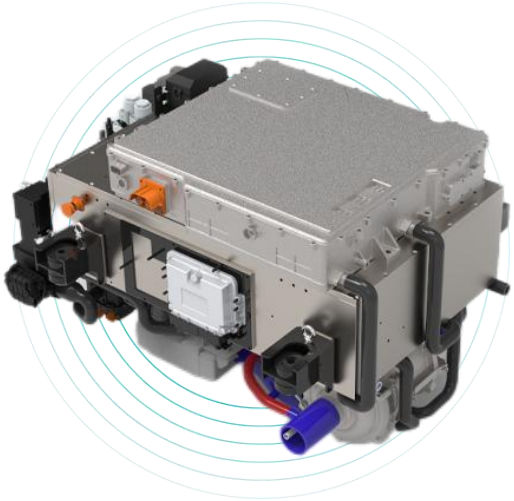
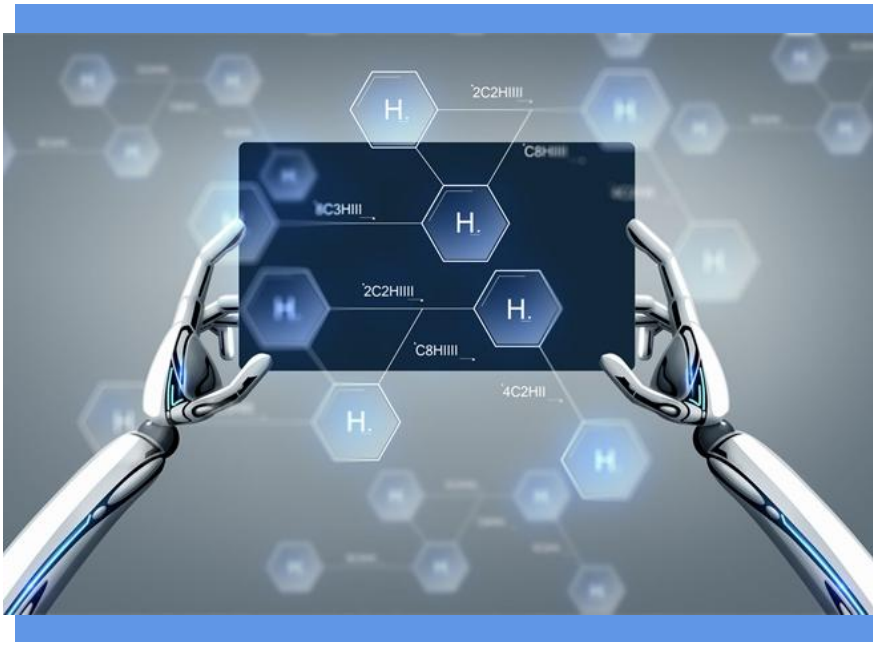
FY06-170kW Fuel Cell Engine

锋源氢能
FENERGY





High performance

Rated power 130kW

IIndependently developed

Customized design and development based on customer needs

Accurate and controllable

High power density and small size

Project	参数	说明
System rated power (kW)	170	Working point 0.72V
Rated power of electric stack (kW)	198	Working point 0.72V
Type of stack	Proton exchange membrane fuel cell	
Electric stack board type	Metal bipolar plate	
System rated voltage (V)	650	
System output voltage range (V)	450-700	
Control voltage range (V)	18-32	
Start time (S)	≤3	Hot engine start-up
Cold start temperature (℃)	-20	
system efficiency	45-60	
System operating noise (dB)	<84	
System mass (kg)	~270	Excluding radiators, pipelines, and cables
System volume (mm × Mm × Mm)	~1030*765*655	Excluding radiators, pipelines, and cables
Cooling method	hydrocooling	
Fuel type	hydrogen	
Purity requirements	>99.99%	Does not contain carbon monoxide
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 conditions
Hydrogen circulation technology	ejector	
Humidification technology	Membrane self humidifying	
Product Features	Self humidifying	
Heating power (kW)	147	EOL
Rated hydrogen flow rate (g/s)	3.92	
Rated air inlet flow rate (g/s)	216.85	
Hydrogen utilization rate	>96%	
System protection	IP67	
System insulation	>1MΩ	500VDC
Hydrogen leakage rate	<50ppm	