

FY06-S80kW Fuel Cell Engine



High performance

Rated power 80kW



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)	80	Working point 0.65V
Rated power of electric stack (kW)	100	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 (℃)	-30	
Rated efficiency	>45%	
Peak efficiency	>55%	
System operating noise (dB)	<75	
System mass (kg)	~220	Excluding heat sinks, pipelines, and cables
System volume (mm × Mm × Mm)	~950×675×560	
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 (℃)	-30~45	
Service life (h)	>20000	Steady-state operating condition
Hydrogen circulation technology	Hydrogen circulation pump	
Humidification technology	Membrane humidifier	
Product Features	88	
Heating power (kW)	1200	Measurement ratio 1.6
Rated hydrogen flow rate (g/s)	5436	Measurement ratio 2.0
Rated air inlet flow rate (g/s)	>95%	
Hydrogen utilization rate	IP67	
System protection	>1MΩ	500VDC
System insulation	<50ppm	