DEVELOPING INDEPENDENT TECH, SERVING HYDROGEN SOCIETY

Corporate Website

WeCom

Ningbo Zhongke Cotrun New Energy Science Technology Co., Ltd.

AD 3F, No.20, Kandun West Street, CiXi, ZheJiang 315303, China

E zkkcenergy@cas-nano.cn W www.cas-nano.cn T 0086-0574-63081905

YHKC

Ningbo Zhongke Cotrun New Energy Science Technology Co., Ltd.

- Nano-catalyst Expert
- MEAs Expert
- Small PEM Electrolyzer Expert

DEVELOPING INDEPENDENT TECH, SERVING HYDROGEN SOCIETY

10 / years /
10 - year industry experience

3500 / m² /
3,500 - square - meter intelligent production base

32 / P /
Distributed in 32 provincial - level administrative regions across the country

28 / H /
28-item High -tech products

YHKC

Ningbo Zhongke Cotrun New Energy Science Technology Co., Ltd.

Ningbo Zhongke Cotrun New Energy Science Technology Co., Ltd. is a national high-tech enterprise and a specialized-sophisticated enterprise in Ningbo, with the core technology and team originated from Shanghai Advanced Research Institute, Chinese Academy of Sciences. The company specializes in the research and development of nanostructured electrocatalysts, membrane electrode assemblies (MEAs) for PEM fuel cells and water electrolyzers, focusing on the industrialization, application, and the solution for the customers. The company has over 20 invention patents, and participated in numerous national-level research programs.

The company has meticulously developed supported and unsupported electrocatalysts, MEAs for PEM fuel cell & water electrolysis, and electrolyzer products. These products demonstrate outstanding performance and have been widely utilized in various fields including fuel cells, PEM electrolysis, gas sensors, metal-air batteries, biotechnology and pharmaceutical chemistry. The key technical parameters have reached the international advanced levels. The company has won the First Prize of Technology Invention from the Chinese Renewable Energy Society, the China International Industry Fair New Innovation Award, and other honors.

"Developing Independent Tech., Servicing Hydrogen Energy Society" is the company's consistent business philosophy. Against the backdrop of the “dual -carbon" strategy, the company aims to break through the bottlenecks for key materials and realizes the large-scale application of the core components in hydrogen energy industry chain. The company will continue to carry forward the pioneering spirit, and is committed to providing our customers with "professional, high-quality, reliable, and cost-effective" one-stop application solutions with profound professional knowledge and rich practical experience, contributing to the development of the industry.

DEVELOPING INDEPENDENT TECH, SERVING HYDROGEN SOCIETY

CORPORATEHONORS

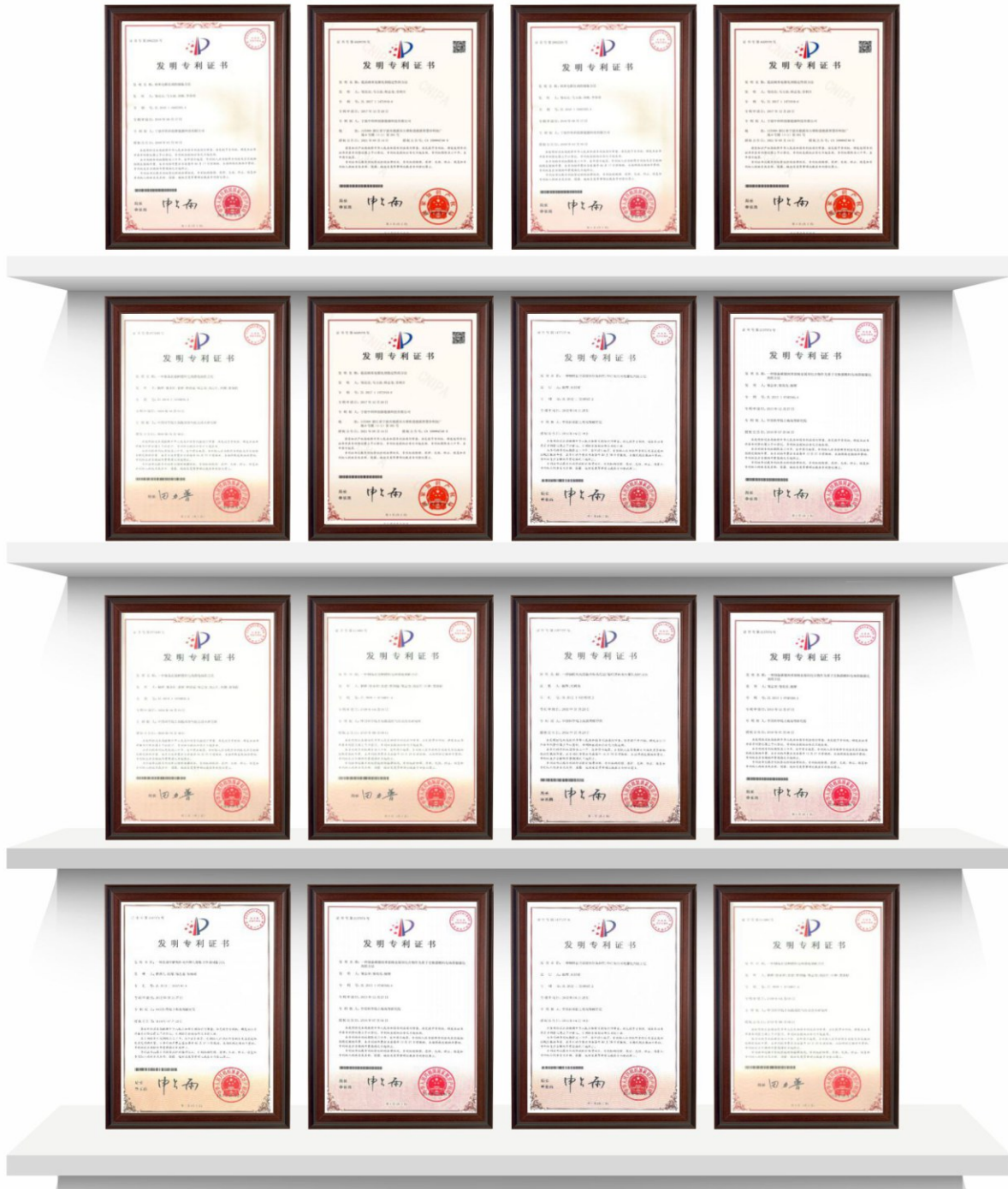
- High-tech certified enterprise; Specialized and sophisticated new enterprise
- ISO-9001 quality management system certification
- IATF：16949 automotive quality management system certification
- The product won the Innovation Award at the China International Industry Fair
- China Hydrogen Energy Industry New Development Special Contribution Award

Innovation Award of China International Industry Fair

First Prize in S&T Award of China Renewable Energy Society

INVENTION PATENT

Over 20 invention patents with
independent intellectual property rights



01

PEM hydrogen production

Anode catalyst, Cathode catalyst,
Membrane electrode assembly (MEA)
for PEM hydrogen production,
Electrolyzer (≤1 Nm^3/h)

02

AEM hydrogen production

Anode catalyst, Cathode catalyst

03

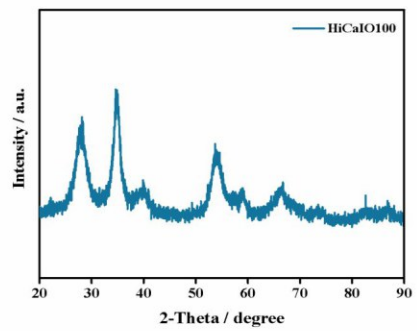
Air-cooled fuel cell methanol fuel cell

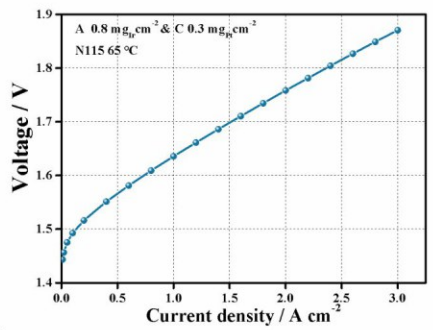
Anode catalyst, Cathode catalyst,
Air-cooled membrane electrode assembly,
Direct alcohol membrane electrode assembly

PEM Hydrogen Production — Anode Catalyst

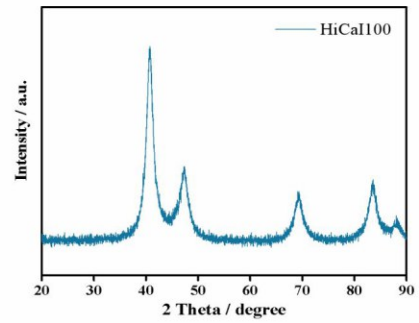
Catalyst	Model	Composition	Average particle size (nm)	Specific surface area (m^2/g)	Application scenario
Unsupported Iridium Oxide	HiCalO100	~80wt.% Ir	7.0	120	PEM anode catalyst
Unsupported Iridium Black	HiCal100	> 95wt.% Ir	4.5	50	PEM anode Catalyst

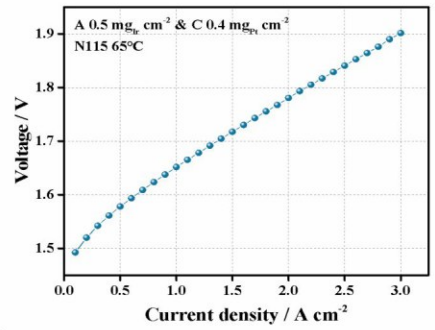
HiCalO100





HiCal100



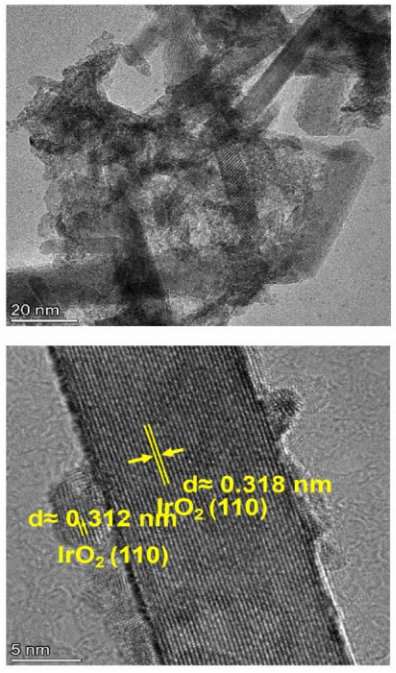


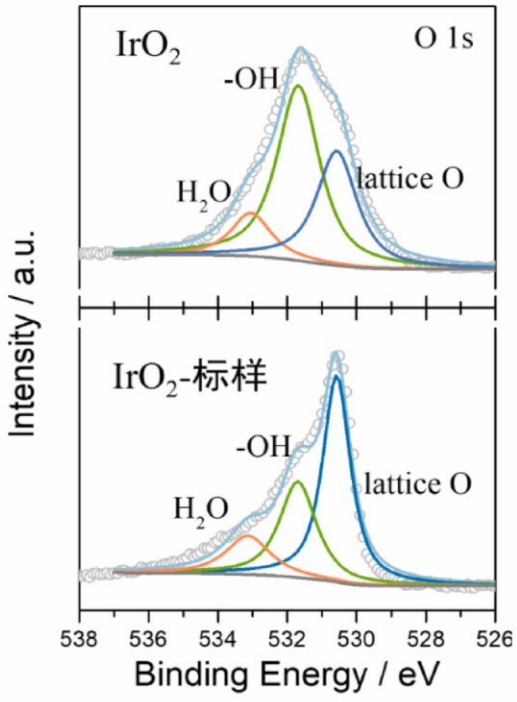
Unsupported Iridium Oxide HiCaIO100

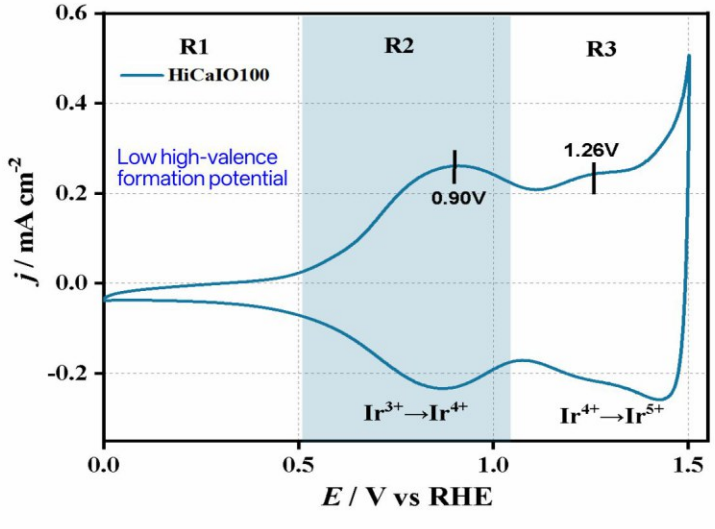
Model	D10/μm	D50/μm	D90/μm
HiCaIO100	0.129	0.331	0.923

Technical Features:

High dispersibility, high OH content; composite structure ensures high activity and high stability.



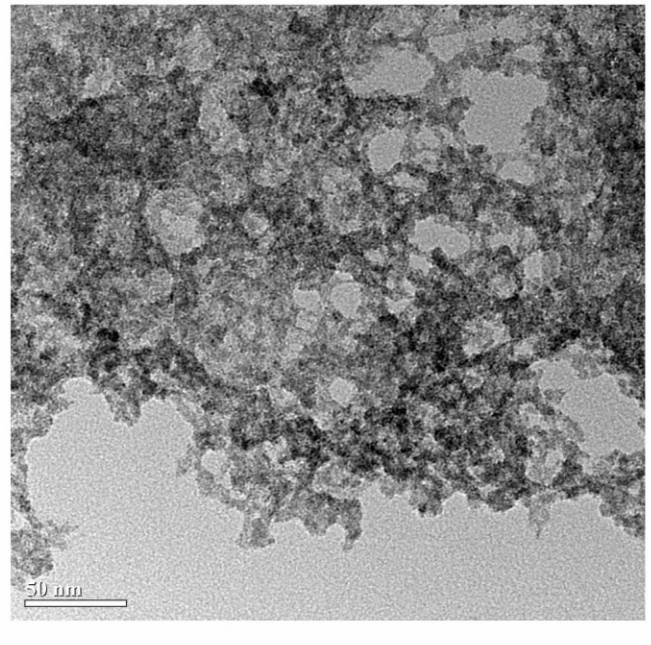


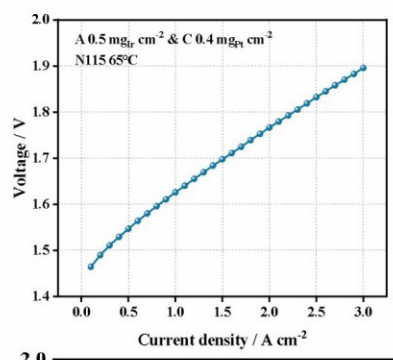


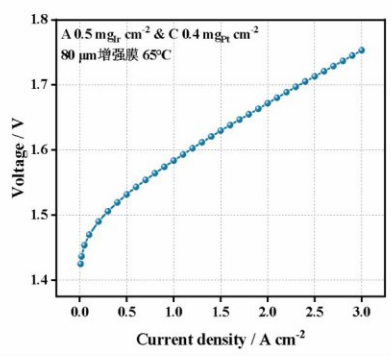
New Generation Iridium Oxide Catalyst HiCaIO100

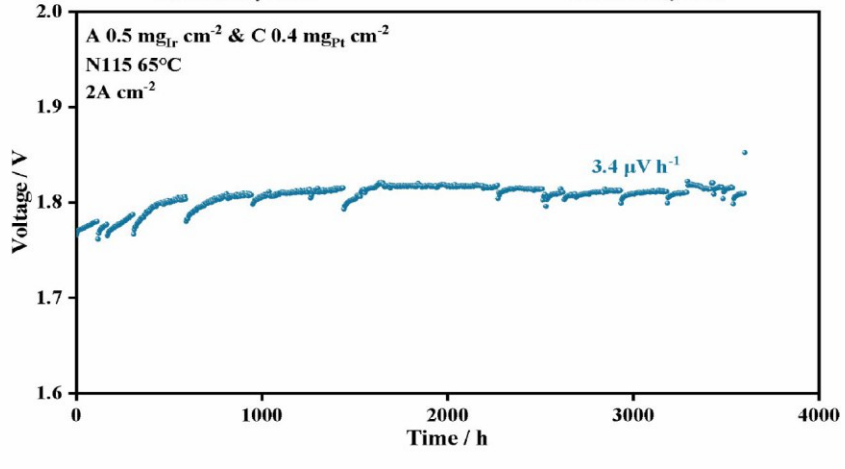
Technical Features:

Unique nanostructure, low iridium loading (≤0.5 mglr cm^{-2}), long-term stability.





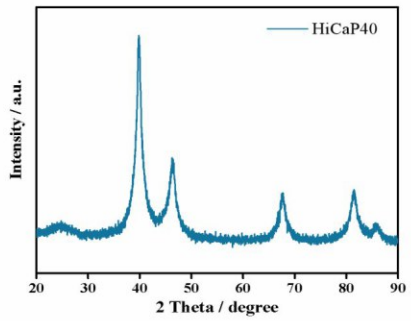


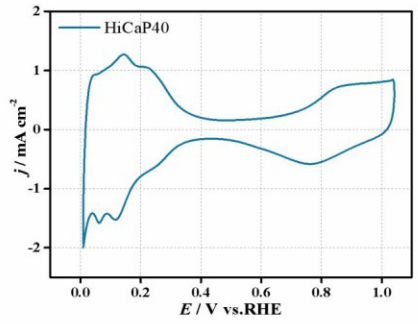


PEM Hydrogen Production — Cathode Catalyst

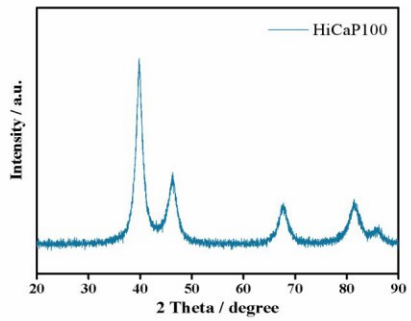
Catalyst	Model	Composition	Average particle size (nm)	Specific surface area (m^2/g)	Application scenario
Platinum-Carbon Catalyst	HiCaP40	40wt.% Pt, 60wt.%C	2.8	140	PEM anode catalyst
Platinum-Black Catalyst	HiCaP100	> 95wt.% Pt	5.0	35	PEM Hydrogen Production Anode Hydrogen Elimination / PEM Hydrogen Production Catalyst

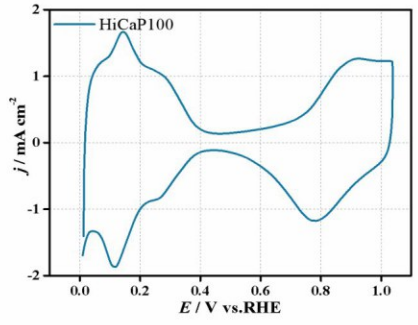
HiCaP40





HiCaP100





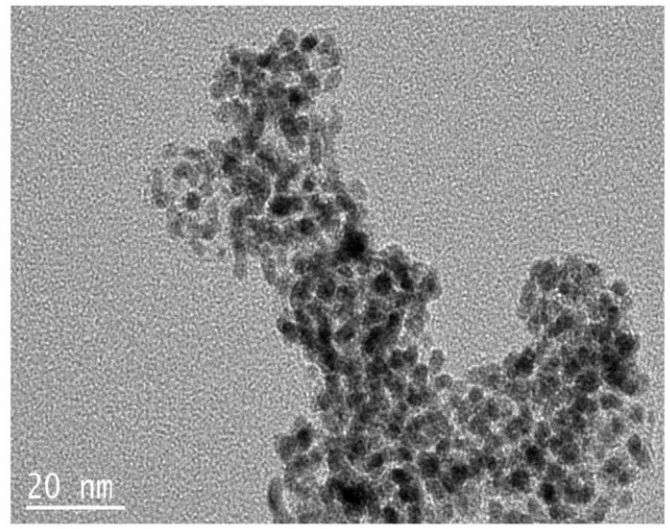
Platinum-Black Catalyst HiCaP100

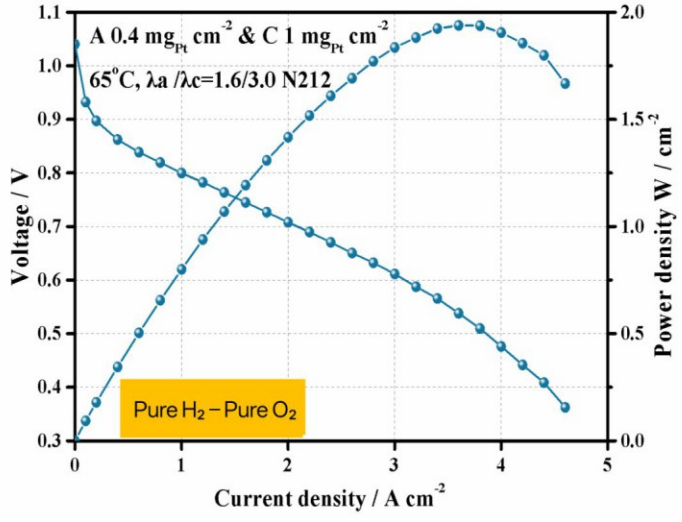
Catalyst	Model	Composition	Average particle size (nm)	Specific surface area (m^2/g)	Application scenario
Platinum-Black Catalyst	HiCaP100	> 95wt.% Pt	2.5	35	PEM Hydrogen Production Anode Hydrogen Elimination Catalyst / PEM Hydrogen Production Catalyst, Pure H_2-O_2 Fuel Cell, Electrochemical Sensor

Model	D10/μm	D50/μm	D90/μm
HiCaP100	0.178	0.425	1.253

Technical Features:

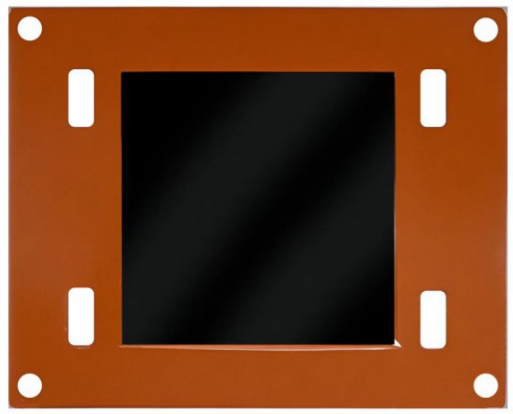
Surface hydroxylation treatment, high dispersibility, high specific surface area, high packing density.

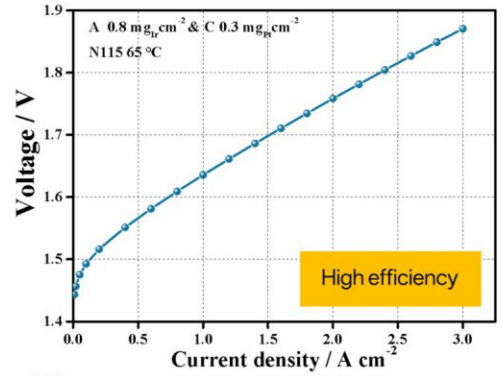


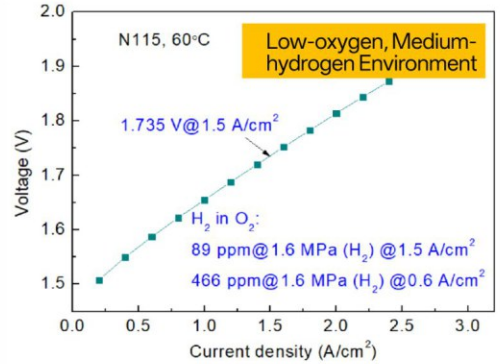


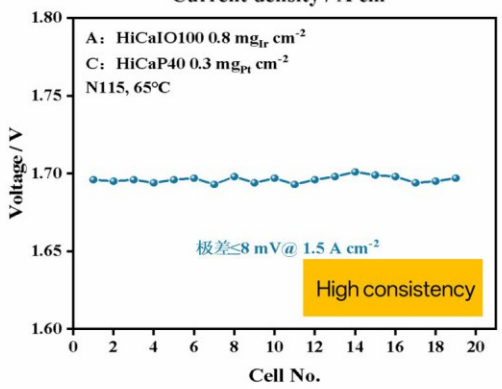
PEM Hydrogen Production — Membrane Electrode Assembly (N115)

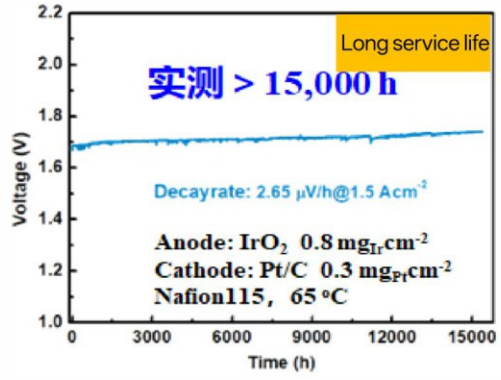
Model	Proton Exchange Membrane	Anode Catalyst	Cathode Catalyst	Performance Indicators
PEM Hydrogen Production Membrane Electrode Assembly	N115	HiCalO100	HiCaP40	1.80 V @ 2 A cm^{-2}





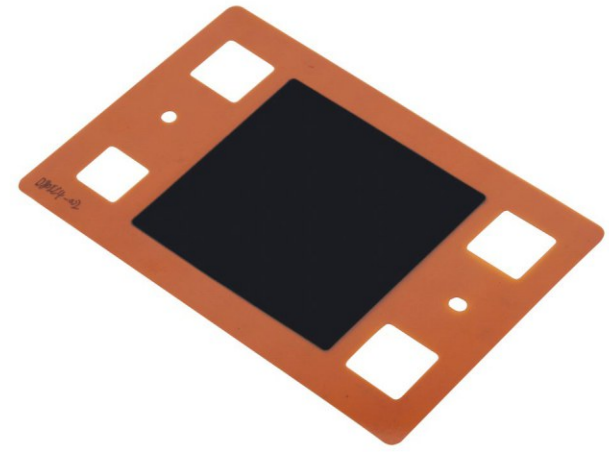


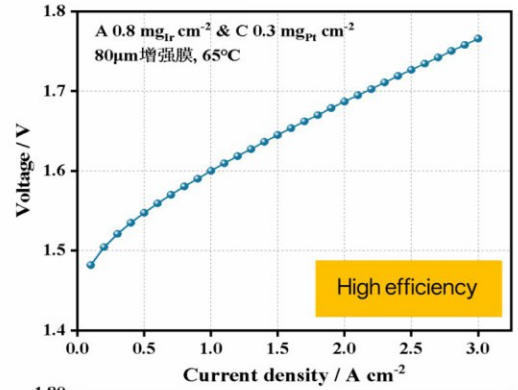


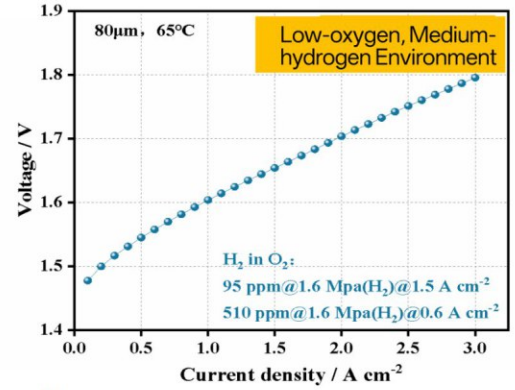


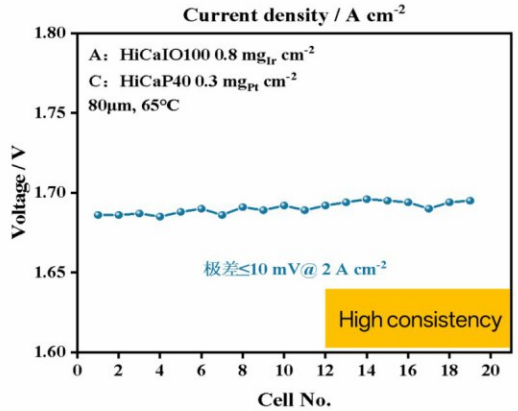
PEM Hydrogen Production – Membrane Electrode Assembly (80μm)

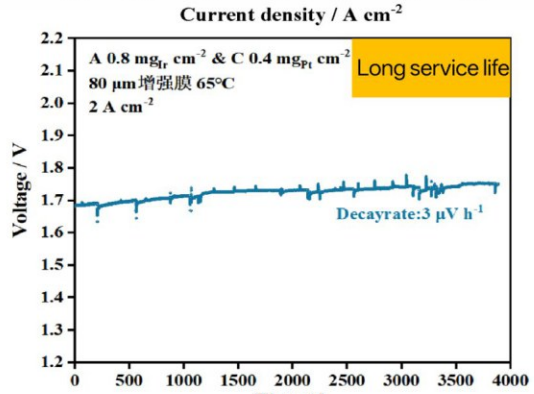
Model	Proton Exchange Membrane	Anode Catalyst	Cathode Catalyst	Performance Indicators
PEM Hydrogen Production Membrane Electrode Assembly	80μmReinforced membrane	HiCalO100	HiCaP40	1.72 V @ 2 A cm^{-2}











Standard test fixture

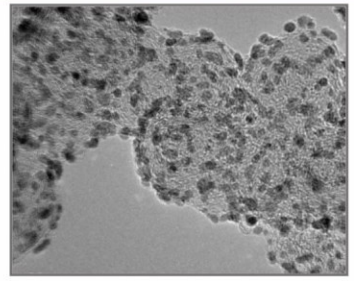
- Unique platinum-plated flow field and high-purity titanium diffusion layer;
- High-precision positioning and easy to maintain tight sealing;
- The test results are highly accurate and have good stability.

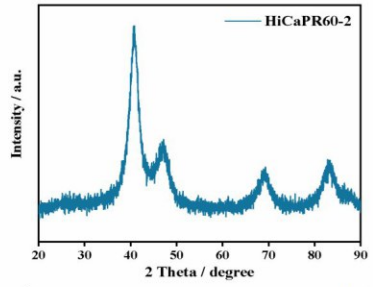
- Dedicated high-performance and long-durability membrane electrode;
- Easy to learn, practical, and with good comparability;
- Support customization of effective area and component characteristics.

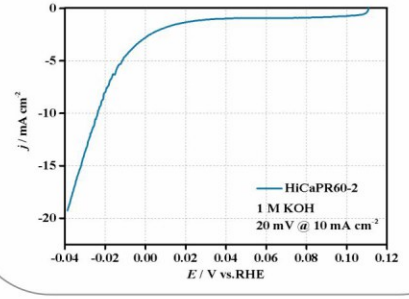
AEM Water Electrolysis — Catalysts

Catalyst	Model	Composition	Average particle size (nm)	Specific surface area (m^2/g)	Application scenario
PtRu Alloy Supported on Carbon	HiCaPR60-2	40wt.% Pt,20wt.% Ru, 40wt.%C	3.5	290	AEM Hydrogen Production Cathode Catalyst
Ni-Fe-Ce catalyst	HiCaNFC	60wt.% Ni,30wt.% Fe, 10wt.%CeO_2	25	35	AEM Hydrogen Production Anode Catalyst

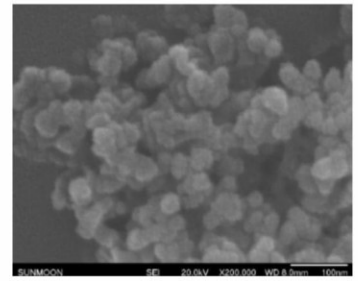
HiCaPR60-2

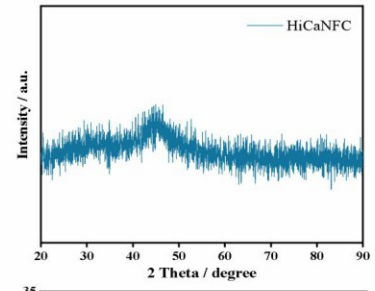


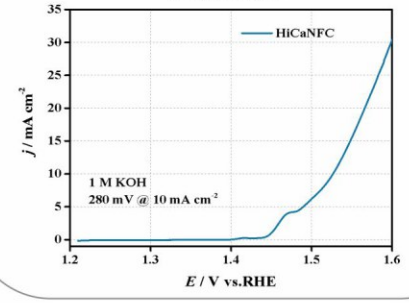




HiCaNFC



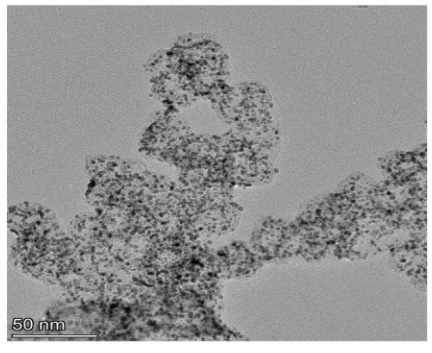




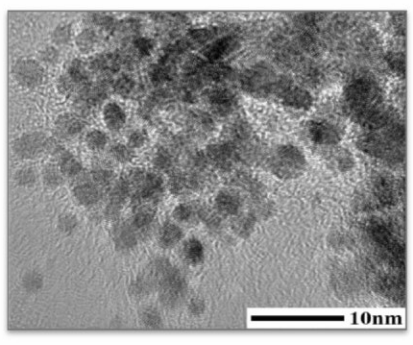
Platinum-Ruthenium Alloy Catalyst

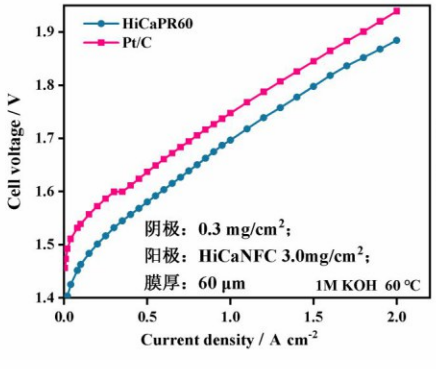
Catalyst	Model	Composition	Average particle size (nm)	Specific surface area (m^2/g)	Application scenario
Platinum-Ruthenium Alloy Black	HiCaPR100	65wt.% Pt, 35wt.%Ru	4.5	30	AEM hydrogen production cathode catalyst, direct alcohol fuel cell, CO poisoning resistance, electrochemical sensor
PtRu Alloy Supported on Carbon	HiCaPR60	40wt.% Pt, 20wt.%Ru, 40wt.% C	4.0	110/290	AEM hydrogen production cathode catalyst, direct alcohol fuel cell, CO poisoning resistance, electrochemical sensor

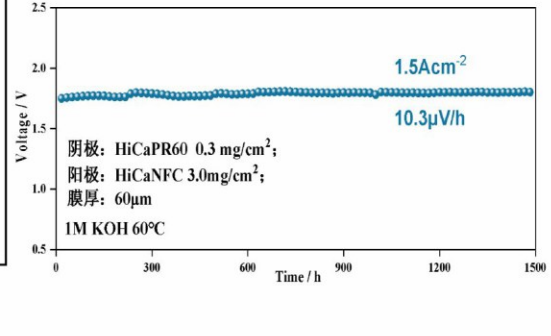
HiCaPR60



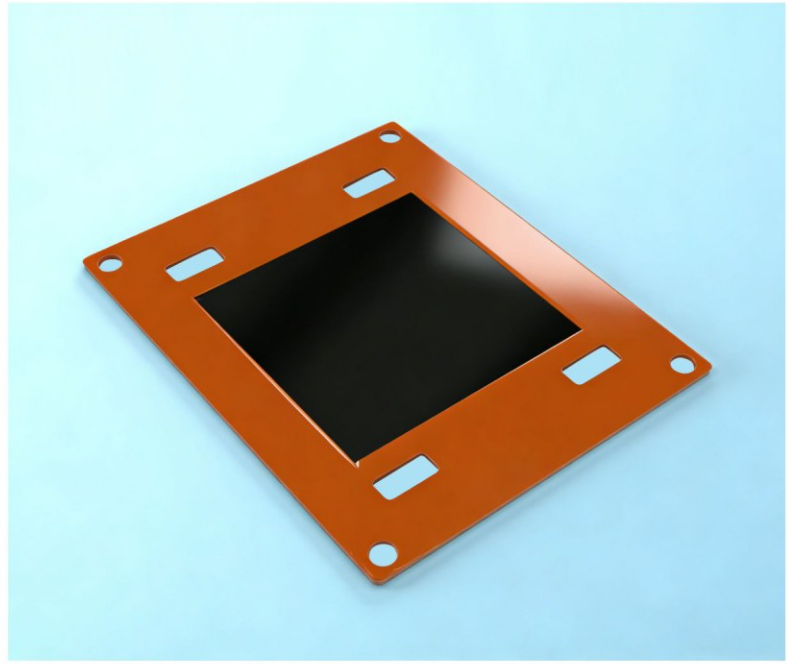
HiCaPR100

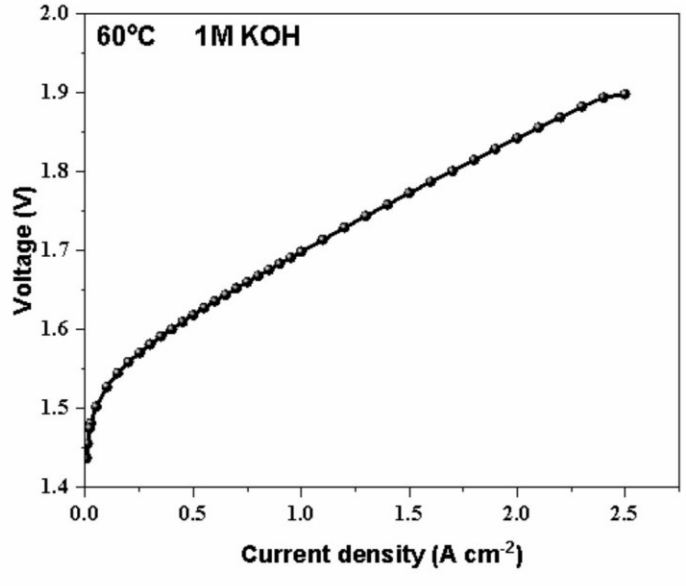






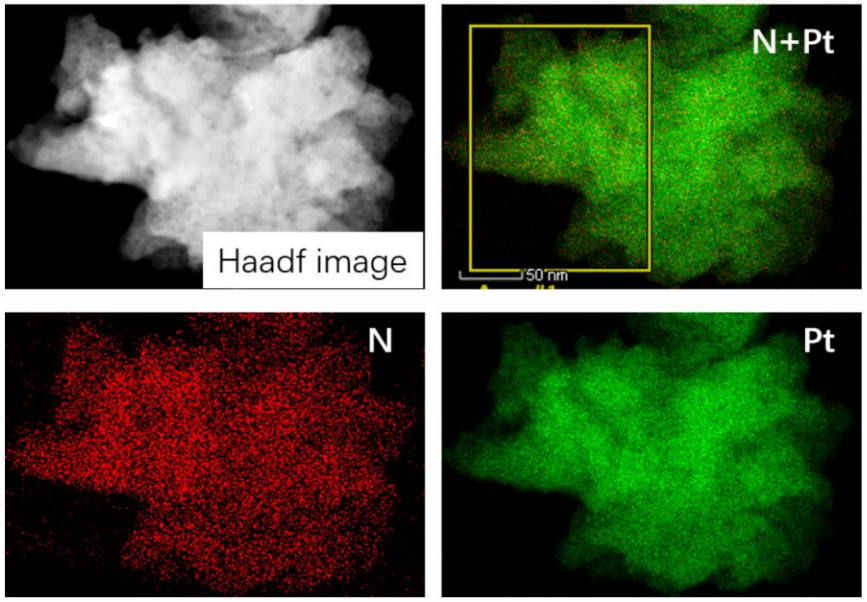
AEM Hydrogen Production — Membrane Electrode Assembly

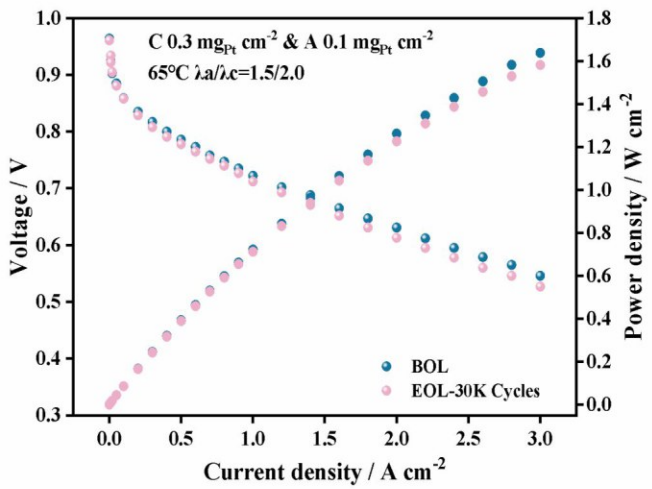




Pt/C fuel cell catalyst

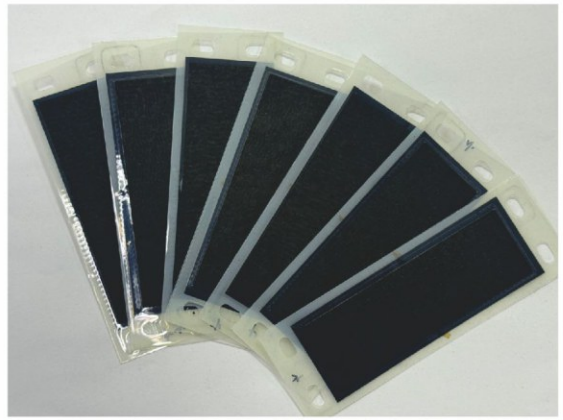
Catalyst	Model	Composition	Average particle size(nm)	Mass Specific Activity (mA/mg)	Specific surface area(m^2/g)	Application Scenarios
Platinum-Carbon Catalyst	HiCaP10	10wt.% Pt, 90wt.%C	2. 5	140	240	Fuel cells, PEM water electrolysis, electrochemical sensors, electrochemical deoxygenation and oxygen control
	HiCaP20	20wt.% Pt, 80wt.%C	2. 5	140	200	
	HiCaP40	40wt.% Pt, 60wt.%C	2. 8	130	140	
	HiCaP50	50wt.% Pt, 50wt.%C	3.0	130	110	
	HiCaP60	60wt.% Pt, 40wt.%C	3.0	135	290	
	HiCaP70	70wt.% Pt, 30wt.%C	3.2	135	85	

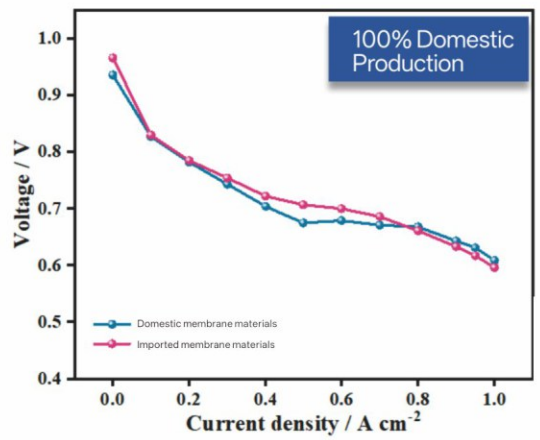


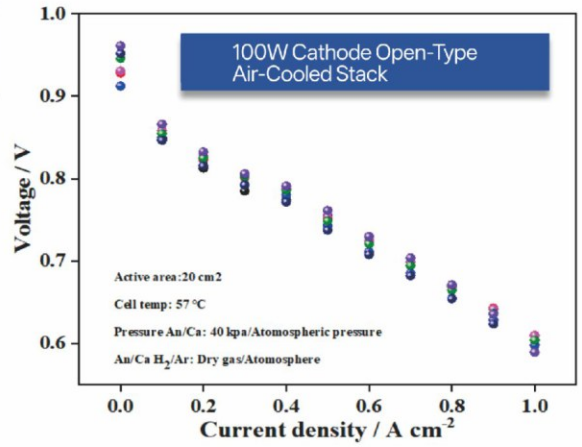


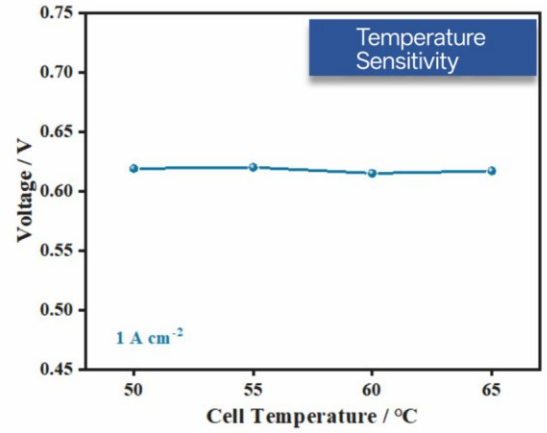
Air-cooled Fuel Cell MEA

Model	Proton Exchange Membrane	Anode Catalyst	Cathode Catalyst	Performance Indicators
Air-cooled fuel cell membrane electrode assembly	Gore M765.08	HiCaP40	HiCaP60	1 A cm-2@ > 0.6 V
	China-made membrane materials			



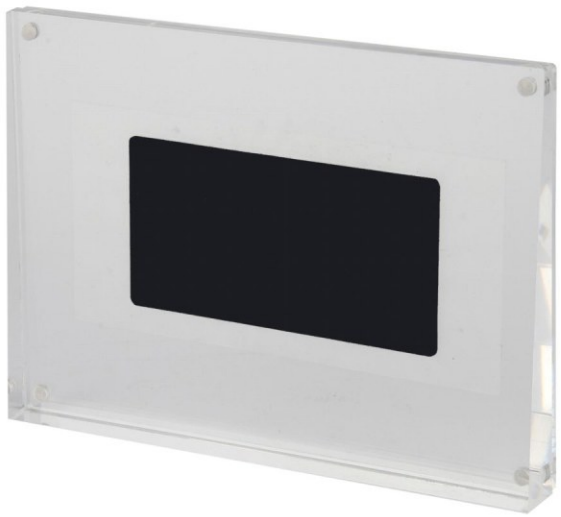


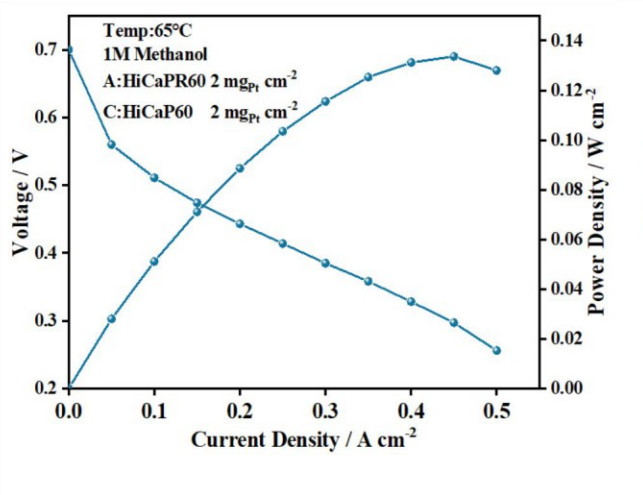


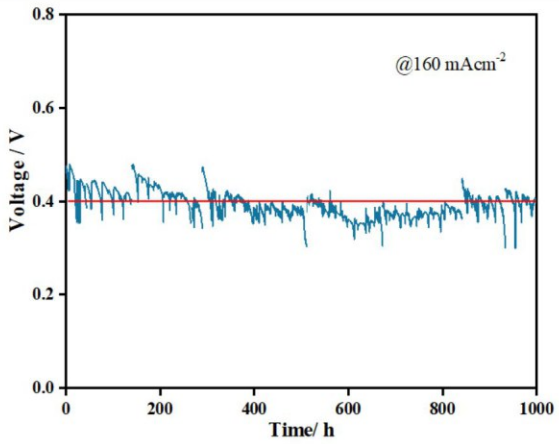


DAFC-MEA

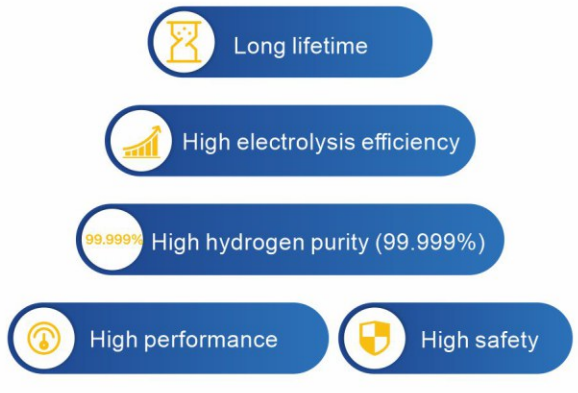
Model	Proton Exchange Membrane	Anode Catalyst	Cathode Catalyst	Performance Indicators
Direct alcohol fuel cell membrane electrode assembly	N115	HiCaPR60	HiCaP60	0.43V @ 200 mA cm^{-2}

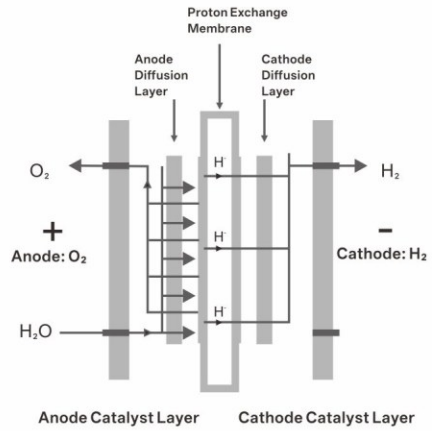






PEM Electrolyzer





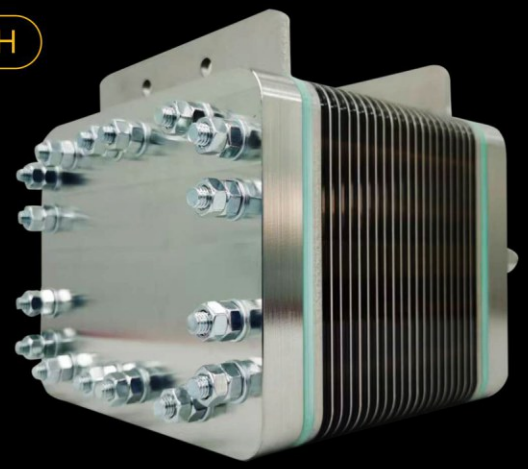
Independently master the core technologies for PEM water electrolysis

PEM water-electrolysis technology can accommodate the intermittency of renewable energy sources such as photovoltaic and wind energy. It is a premier technology for coupling with renewable energy to produce green hydrogen and one of the crucial technologies for advancing clean energy landscape.

Compared with traditional alkaline water electrolysis and other technologies, PEM water-electrolysis features high efficiency, high-purity hydrogen, rapid start-up, and strong fluctuating adaptability (well -suited to couple renewable energy). Moreover, the compact structural design significantly saves the space and is highly adaptable for scenarios with limited space.

CASI New Energy Technology (Ningbo) Co., Ltd. meticulously selects the raw materials, fine-optimizes production processes, and rigorously controls every step of the workflow, striving for perfection at every juncture. Through continuous efforts, the company aims to become a global leading supplier of nanostructured electrocatalysts and PEM based MEAs, contributing to the development of the green hydrogen industry and facilitating the global energy structure's transition towards cleanliness and sustainability.

PEM Water Electrolyzer1Nm³/H



- Professional Custom-made Available upon the Request

Model	KA1
Hydrogen Production Rate	1Nm³/H
Oxygen Production Rate	0.5Nm³/H
Constant Current (A)	120
Circulating Water Temperature (°C)	25-70
Circulating Water Flow	160L/H
Circulation Mode	Water pump circulation
Hydrogen Purity (%)	99.99
Water Electrolysis Method	MEA
Maximum Pressure Resistance	1.6Mpa
TDS — Anode Water	≤1
TDS — Cathode Water	/
Single - cell Voltage (v)	1. 75-2.5
Dimensions (excluding Lugs)	185*175*175
Effective Area of MEA	125.5*80.5(20)
Application Fields	Fuel cell system testing, Fuel cell backup power supply, Combined heat and power, Semiconductor, Multi-energy complementary independent micro - grids, etc.

Independent R & D and production: Superior materials, Exquisite processes

High purity hydrogen, Long service life

High pressure resistance: Capable of producing high-pressure hydrogen

High current density, Low power consumption, stable voltage

Safe and reliable, Stable performance

PEM Water Electrolyzer0.6Nm³/H

- Professional Custom-made Available upon the Request

Model	KA0.60
Hydrogen Production Rate	0.6Nm³/H
Oxygen Production Rate	0.3Nm³/H
Constant Current (A)	120
Circulating Water Temperature (°C)	25-70
Circulating Water Flow	100L/H
Circulation Mode	Water pump circulation
Hydrogen Purity (%)	99.99
Water Electrolysis Method	MEA
Maximum Pressure Resistance	1.6Mpa
TDS — Anode Water	≤1
TDS — Cathode Water	/
Single - cell Voltage (v)	1. 75-2.5
Dimensions (excluding Lugs)	185*175*145
Effective Area of MEA	125.5*80.5(12)
Application Fields	Fuel cell system testing, Fuel cell backup power supply, Combined heat and power, Semiconductor, Multi-energy complementary independent micro - grids, etc.

Independent R & D and production: Superior materials, Exquisite processes

High purity hydrogen, Long service life

High pressure resistance: Capable of producing high-pressure hydrogen

High current density, Low power consumption, stable voltage

Safe and reliable, Stable performance

PEM Water Electrolyzer6000ml/Min

Professional Custom-made Available upon the Request

Model	KB6000
Hydrogen Production Rate	6000ml/Min
Oxygen Production Rate	3000ml/Min
Constant Current (A)	80
Circulating Water Temperature (°C)	25-45
Circulating Water Flow	3000ml/Min
Circulation Mode	Water pump circulation
Hydrogen Purity (%)	99.99
Water Electrolysis Method	MEA
Maximum Pressure Resistance	1Mpa
TDS — Anode Water	≤1
TDS — Cathode Water	/
Single - cell Voltage (v)	1. 75-2.5
Dimensions (excluding Lugs)	176*126*97
Effective Area of MEA	120*80（10）
Application Fields	The fuel and carrier gas for gas chromatography (GC), reaction gas for electrolytic conductivity detector (ELCD) and atomic emission spectrometry detector (ED), hydrogen-rich water generator; hydrogen-oxygen generator, etc.

Independent R & D and production: Superior materials, Exquisite processes

High purity hydrogen, Long service life

High pressure resistance: Capable of producing high-pressure hydrogen

High current density, Low power consumption, stable voltage

Safe and reliable, Stable performance

PEM Water Electrolyzer4800ml/Min

Professional Custom-made Available upon the Request

Model	KB4800
Hydrogen Production Rate	4800ml/Min
Oxygen Production Rate	2400ml/Min
Constant Current (A)	80
Circulating Water Temperature (°C)	25-45
Circulating Water Flow	2500ml/Min
Circulation Mode	Water pump circulation
Hydrogen Purity (%)	99.99
Water Electrolysis Method	MEA
Maximum Pressure Resistance	1Mpa
TDS — Anode Water	≤1
TDS — Cathode Water	/
Single - cell Voltage (v)	1. 75-2.5
Dimensions (excluding Lugs)	176*126*84
Effective Area of MEA	120*80(8)
Application Fields	The fuel and carrier gas for gas chromatography (GC), reaction gas for electrolytic conductivity detector (ELCD) and atomic emission spectrometry detector (ED), hydrogen-rich water generator; hydrogen-oxygen generator, etc.

Independent R & D and production: Superior materials, Exquisite processes

High purity hydrogen, Long service life

High pressure resistance: Capable of producing high-pressure hydrogen

High current density, Low power consumption, stable voltage

Safe and reliable, Stable performance

PEM Water Electrolyzer3600ml/Min

Professional Custom-made Available upon the Request

Model	KB3600
Hydrogen Production Rate	3600ml/Min
Oxygen Production Rate	1800ml/Min
Constant Current (A)	80
Circulating Water Temperature (°C)	25-45
Circulating Water Flow	2000ml/Min
Circulation Mode	Water pump circulation
Hydrogen Purity (%)	99.99
Water Electrolysis Method	MEA
Maximum Pressure Resistance	1Mpa
TDS — Anode Water	≤1
TDS — Cathode Water	/
Single - cell Voltage (v)	1. 75-2.5
Dimensions (excluding Lugs)	176*126*71
Effective Area of MEA	120*80（6）
Application Fields	The fuel and carrier gas for gas chromatography (GC), reaction gas for electrolytic conductivity detector (ELCD) and atomic emission spectrometry detector (ED), hydrogen-rich water generator; hydrogen-oxygen generator, etc.

Independent R & D and production: Superior materials, Exquisite processes

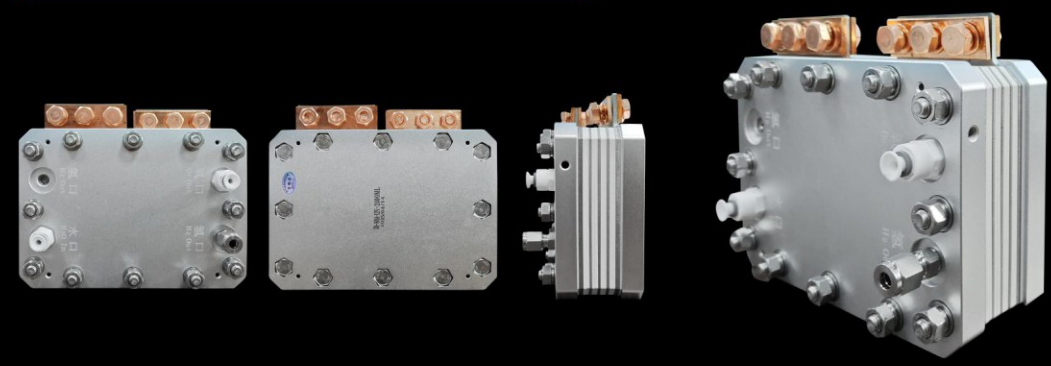
High purity hydrogen, Long service life

High pressure resistance: Capable of producing high-pressure hydrogen

High current density, Low power consumption, stable voltage

Safe and reliable, Stable performance

PEM Water Electrolyzer2400ml/Min



Professional Custom-made Available upon the Request

Model	KB2400
Hydrogen Production Rate	2400ml/Min
Oxygen Production Rate	1200ml/Min
Constant Current (A)	80
Circulating Water Temperature (°C)	25-45
Circulating Water Flow	600ml/Min
Circulation Mode	Water pump circulation
Hydrogen Purity (%)	99.99
Water Electrolysis Method	MEA
Maximum Pressure Resistance	1Mpa
TDS — Anode Water	≤1
TDS — Cathode Water	/
Single - cell Voltage (v)	1. 75-2.5
Dimensions (excluding Lugs)	176*126*59
Effective Area of MEA	120*80(4)
Application Fields	The fuel and carrier gas for gas chromatography (GC), reaction gas for electrolytic conductivity detector (ELCD) and atomic emission spectrometry detector (ED), hydrogen-rich water generator; hydrogen-oxygen generator, etc.

Independent R & D and production: Superior materials, Exquisite processes

High purity hydrogen, Long service life

High pressure resistance: Capable of producing high-pressure hydrogen

High current density, Low power consumption, stable voltage

Safe and reliable, Stable performance

PEM Water Electrolyzer2000ml/Min

Professional Custom-made Available upon the Request

Model	KC2000
Hydrogen Production Rate	2000ml/Min
Oxygen Production Rate	1000ml/Min
Constant Current (A)	30
Circulating Water Temperature (°C)	25-45
Circulating Water Flow	220ml/Min
Circulation Mode	Water pump circulation
Hydrogen Purity (%)	99.99
Water Electrolysis Method	MEA
Maximum Pressure Resistance	0.8Mpa
TDS — Anode Water	≤1
TDS — Cathode Water	/
Single - cell Voltage (v)	1.75-2.5
Dimensions (excluding Lugs)	93*93*79
Effective Area of MEA	56*56（10）
Application Fields	The fuel and carrier gas for gas chromatography (GC), reaction gas for electrolytic conductivity detector (ELCD) and atomic emission spectrometry detector (ED), hydrogen-rich water generator; hydrogen-oxygen generator, etc.

Independent R & D and production: Superior materials, Exquisite processes

High purity hydrogen, Long service life

High pressure resistance: Capable of producing high-pressure hydrogen

High current density, Low power consumption, stable voltage

Safe and reliable, Stable performance

PEM Water Electrolyzer1800ml/Min

Professional Custom-made Available upon the Request

Model	KC1800
Hydrogen Production Rate	1800ml/Min
Oxygen Production Rate	900ml/Min
Constant Current (A)	30
Circulating Water Temperature (°C)	25-45
Circulating Water Flow	200ml/Min
Circulation Mode	Water pump circulation
Hydrogen Purity (%)	99.99
Water Electrolysis Method	MEA
Maximum Pressure Resistance	0.8Mpa
TDS — Anode Water	≤1
TDS — Cathode Water	/
Single - cell Voltage (v)	1.75-2.5
Dimensions (excluding Lugs)	93*93*73
Effective Area of MEA	56*56(9)
Application Fields	The fuel and carrier gas for gas chromatography (GC), reaction gas for electrolytic conductivity detector (ELCD) and atomic emission spectrometry detector (ED), hydrogen-rich water generator; hydrogen-oxygen generator, etc.

Independent R & D and production: Superior materials, Exquisite processes

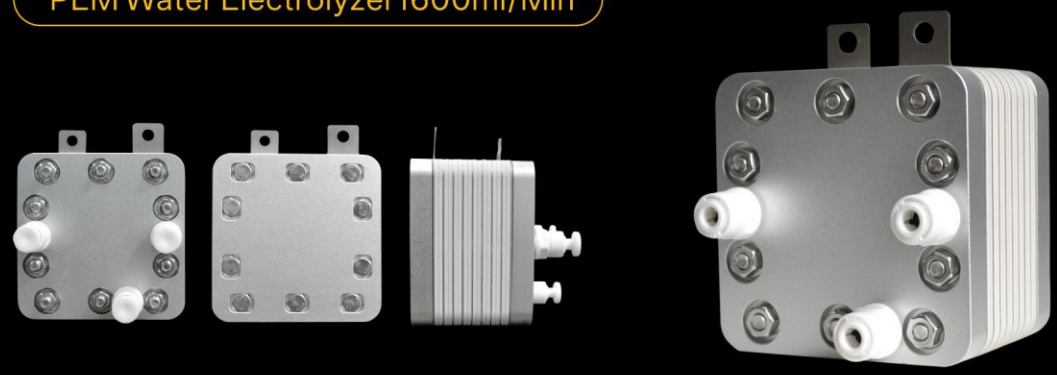
High purity hydrogen, Long service life

High pressure resistance: Capable of producing high-pressure hydrogen

High current density, Low power consumption, stable voltage

Safe and reliable, Stable performance

PEM Water Electrolyzer1600ml/Min

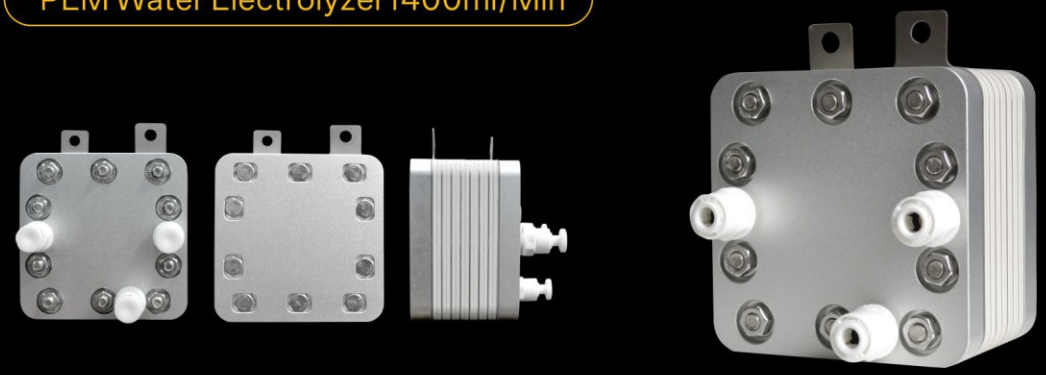


Professional Custom-made Available upon the Request

Model	KC1600
Hydrogen Production Rate	1600ml/Min
Oxygen Production Rate	800ml/Min
Constant Current (A)	30
Circulating Water Temperature (°C)	25-45
Circulating Water Flow	180ml/Min
Circulation Mode	Water pump circulation
Hydrogen Purity (%)	99.99
Water Electrolysis Method	MEA
Maximum Pressure Resistance	0.8Mpa
TDS — Anode Water	≤1
TDS — Cathode Water	/
Single - cell Voltage (v)	1.75-2.5
Dimensions (excluding Lugs)	93*93*67
Effective Area of MEA	56*56（8）
Application Fields	The fuel and carrier gas for gas chromatography (GC), reaction gas for electrolytic conductivity detector (ELCD) and atomic emission spectrometry detector (ED), hydrogen-rich water generator; hydrogen-oxygen generator, etc.

- Independent R & D and production: Superior materials, Exquisite processes
- High purity hydrogen, Long service life
- High pressure resistance: Capable of producing high-pressure hydrogen
- High current density, Low power consumption, stable voltage
- Safe and reliable, Stable performance

PEM Water Electrolyzer1400ml/Min

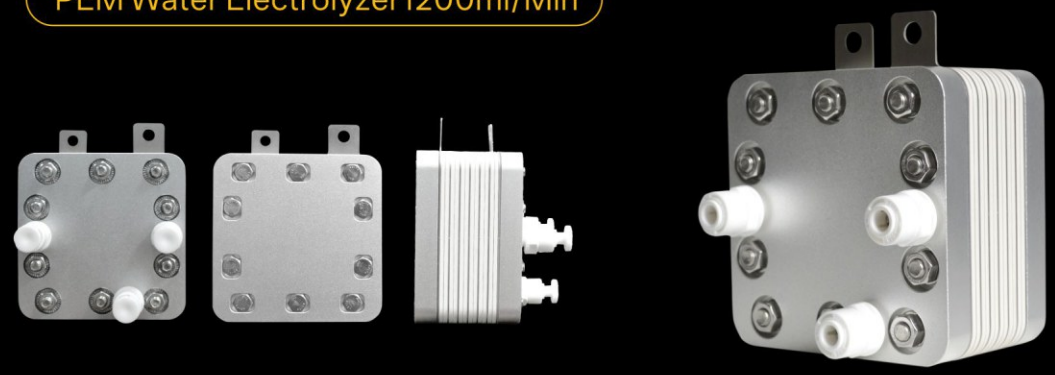


Professional Custom-made Available upon the Request

Model	KC1400
Hydrogen Production Rate	1400ml/Min
Oxygen Production Rate	700ml/Min
Constant Current (A)	30
Circulating Water Temperature (°C)	25-45
Circulating Water Flow	160ml/Min
Circulation Mode	Water pump circulation
Hydrogen Purity (%)	99.99
Water Electrolysis Method	MEA
Maximum Pressure Resistance	0.8Mpa
TDS — Anode Water	≤1
TDS — Cathode Water	/
Single - cell Voltage (v)	1.75-2.5
Dimensions (excluding Lugs)	93*93*61
Effective Area of MEA	56*56(7)
Application Fields	The fuel and carrier gas for gas chromatography (GC), reaction gas for electrolytic conductivity detector (ELCD) and atomic emission spectrometry detector (ED), hydrogen-rich water generator; hydrogen-oxygen generator, etc.

- Independent R & D and production: Superior materials, Exquisite processes
- High purity hydrogen, Long service life
- High pressure resistance: Capable of producing high-pressure hydrogen
- High current density, Low power consumption, stable voltage
- Safe and reliable, Stable performance

PEM Water Electrolyzer1200ml/Min



Professional Custom-made Available upon the Request

Model	KC1200
Hydrogen Production Rate	1200ml/Min
Oxygen Production Rate	600ml/Min
Constant Current (A)	30
Circulating Water Temperature (°C)	25-45
Circulating Water Flow	140ml/Min
Circulation Mode	Water pump circulation
Hydrogen Purity (%)	99.99
Water Electrolysis Method	MEA
Maximum Pressure Resistance	0.8Mpa
TDS — Anode Water	≤1
TDS — Cathode Water	/
Single - cell Voltage (v)	1.75-2.5
Dimensions (excluding Lugs)	93*93*55
Effective Area of MEA	56*56（6）
Application Fields	The fuel and carrier gas for gas chromatography (GC), reaction gas for electrolytic conductivity detector (ELCD) and atomic emission spectrometry detector (ED), hydrogen-rich water generator; hydrogen-oxygen generator, etc.

- Independent R & D and production: Superior materials, Exquisite processes
- High purity hydrogen, Long service life
- High pressure resistance: Capable of producing high-pressure hydrogen
- High current density, Low power consumption, stable voltage
- Safe and reliable, Stable performance

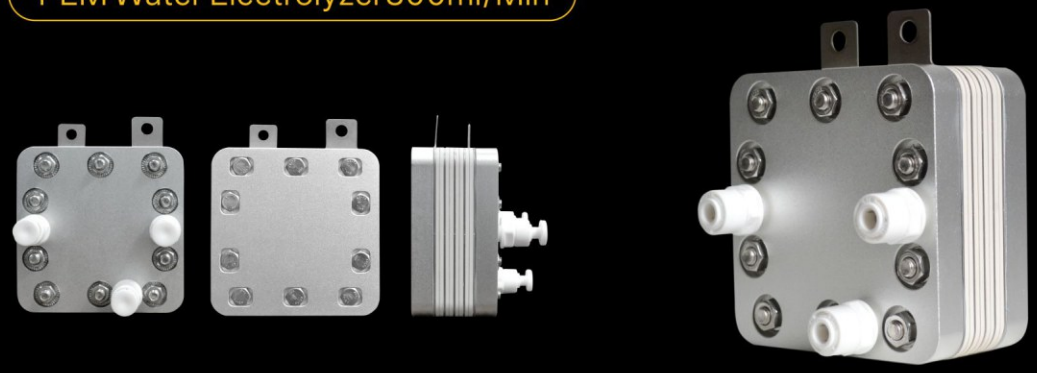
PEM Water Electrolyzer1000ml/Min

Professional Custom-made Available upon the Request

Model	KC1000
Hydrogen Production Rate	1000ml/Min
Oxygen Production Rate	500ml/Min
Constant Current (A)	30
Circulating Water Temperature (°C)	25-45
Circulating Water Flow	140ml/Min
Circulation Mode	Water pump circulation
Hydrogen Purity (%)	99.99
Water Electrolysis Method	MEA
Maximum Pressure Resistance	0.8Mpa
TDS — Anode Water	≤1
TDS — Cathode Water	/
Single - cell Voltage (v)	1.75-2.5
Dimensions (excluding Lugs)	93*93*49
Effective Area of MEA	56*56(5)
Application Fields	The fuel and carrier gas for gas chromatography (GC), reaction gas for electrolytic conductivity detector (ELCD) and atomic emission spectrometry detector (ED), hydrogen-rich water generator; hydrogen-oxygen generator, etc.

- Independent R & D and production: Superior materials, Exquisite processes
- High purity hydrogen, Long service life
- High pressure resistance: Capable of producing high-pressure hydrogen
- High current density, Low power consumption, stable voltage
- Safe and reliable, Stable performance

PEM Water Electrolyzer800ml/Min



- Professional Custom-made Available upon the Request

Model	KC800
Hydrogen Production Rate	800ml/Min
Oxygen Production Rate	400ml/Min
Constant Current (A)	30
Circulating Water Temperature (°C)	25-45
Circulating Water Flow	120ml/Min
Circulation Mode	Water pump circulation
Hydrogen Purity (%)	99.99
Water Electrolysis Method	MEA
Maximum Pressure Resistance	0.8Mpa
TDS — Anode Water	≤1
TDS — Cathode Water	/
Single - cell Voltage (v)	1.75-2.5
Dimensions (excluding Lugs)	93*93*43
Effective Area of MEA	56*56（4）
Application Fields	The fuel and carrier gas for gas chromatography (GC), reaction gas for electrolytic conductivity detector (ELCD) and atomic emission spectrometry detector (ED), hydrogen-rich water generator; hydrogen-oxygen generator, etc.

- Independent R & D and production: Superior materials, Exquisite processes
- High purity hydrogen, Long service life
- High pressure resistance: Capable of producing high-pressure hydrogen
- High current density, Low power consumption, stable voltage
- Safe and reliable, Stable performance

PEM Water Electrolyzer600ml/Min

- Professional Custom-made Available upon the Request

Model	KC600
Hydrogen Production Rate	600ml/Min
Oxygen Production Rate	300ml/Min
Constant Current (A)	30
Circulating Water Temperature (°C)	25-45
Circulating Water Flow	100ml/Min
Circulation Mode	Water pump circulation
Hydrogen Purity (%)	99.99
Water Electrolysis Method	MEA
Maximum Pressure Resistance	0.8Mpa
TDS — Anode Water	≤1
TDS — Cathode Water	/
Single - cell Voltage (v)	1.75-2.5
Dimensions (excluding Lugs)	93*93*37
Effective Area of MEA	56*56(3)
Application Fields	The fuel and carrier gas for gas chromatography (GC), reaction gas for electrolytic conductivity detector (ELCD) and atomic emission spectrometry detector (ED), hydrogen-rich water generator; hydrogen-oxygen generator, etc.

- Independent R & D and production: Superior materials, Exquisite processes
- High purity hydrogen, Long service life
- High pressure resistance: Capable of producing high-pressure hydrogen
- High current density, Low power consumption, stable voltage
- Safe and reliable, Stable performance

PEM Water Electrolyzer400ml/Min

Professional Custom-made Available upon the Request

Model	KC400
Hydrogen Production Rate	400ml/Min
Oxygen Production Rate	200ml/Min
Constant Current (A)	30
Circulating Water Temperature (°C)	25-45
Circulating Water Flow	80ml/Min
Circulation Mode	Water pump circulation
Hydrogen Purity (%)	99.99
Water Electrolysis Method	MEA
Maximum Pressure Resistance	0.8Mpa
TDS — Anode Water	≤1
TDS — Cathode Water	/
Single - cell Voltage (v)	1.75-2.5
Dimensions (excluding Lugs)	93*93*31
Effective Area of MEA	56*56（2）
Application Fields	The fuel and carrier gas for gas chromatography (GC), reaction gas for electrolytic conductivity detector (ELCD) and atomic emission spectrometry detector (ED), hydrogen-rich water generator; hydrogen-oxygen generator, etc.

- Independent R & D and production: Superior materials, Exquisite processes
- High purity hydrogen, Long service life
- High pressure resistance: Capable of producing high-pressure hydrogen
- High current density, Low power consumption, stable voltage
- Safe and reliable, Stable performance

PEM Water Electrolyzer600ml/Min

Professional Custom-made Available upon the Request

Model	KC200
Hydrogen Production Rate	200ml/Min
Oxygen Production Rate	100ml/Min
Constant Current (A)	30
Circulating Water Temperature (°C)	25-45
Circulating Water Flow	40ml/Min
Circulation Mode	Water pump circulation
Hydrogen Purity (%)	99.99
Water Electrolysis Method	MEA
Maximum Pressure Resistance	0.8Mpa
TDS — Anode Water	≤1
TDS — Cathode Water	/
Single - cell Voltage (v)	1.75-2.5
Dimensions (excluding Lugs)	93*93*23
Effective Area of MEA	56*56（1）
Application Fields	The fuel and carrier gas for gas chromatography (GC), reaction gas for electrolytic conductivity detector (ELCD) and atomic emission spectrometry detector (ED), hydrogen-rich water generator; hydrogen-oxygen generator, etc.

- Independent R & D and production: Superior materials, Exquisite processes
- High purity hydrogen, Long service life
- High pressure resistance: Capable of producing high-pressure hydrogen
- High current density, Low power consumption, stable voltage
- Safe and reliable, Stable performance

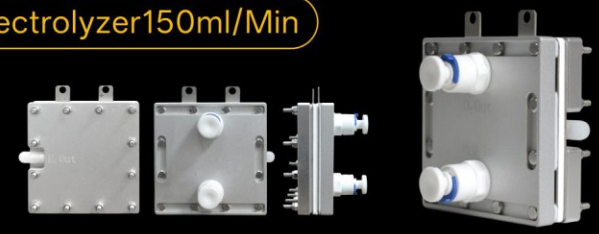
PEM Water Electrolyzer300ml/Min

Professional Custom-made Available upon the Request

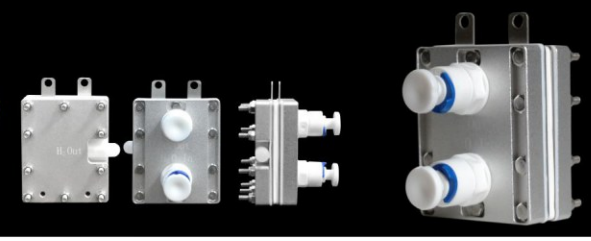
Model	CA300
Hydrogen Production Rate	300ml/Min
Oxygen Production Rate	150ml/Min
Constant Current (A)	20
Circulating Water Temperature (°C)	25-45
Circulating Water Flow	60ml/Min
Circulation Mode	Water pump circulation
Hydrogen Purity (%)	99.99
Water Electrolysis Method	MEA
Maximum Pressure Resistance	0.8Mpa
TDS — Anode Water	≤1
TDS — Cathode Water	/
Single - cell Voltage (v)	1. 75-2.5
Dimensions (excluding Lugs)	74*74*39
Effective Area of MEA	53.5*53.5(2)
Application Fields	The fuel and carrier gas for gas chromatography (GC), reaction gas for electrolytic conductivity detector (ELCD) and atomic emission spectrometry detector (ED), hydrogen-rich water generator; hydrogen-oxygen generator, etc.

- Independent R & D and production: Superior materials, Exquisite processes
- High purity hydrogen, Long service life
- High pressure resistance: Capable of producing high-pressure hydrogen
- High current density, Low power consumption, stable voltage
- Safe and reliable, Stable performance

PEM Water Electrolyzer150ml/Min



PEM Water Electrolyzer50ml/Min



Professional Custom-made Available upon the Request

Model	CA150	CA050
Hydrogen Production Rate	150ml/Min	50-100ml/Min
Oxygen Production Rate	75ml/Min	25ml/Min
Constant Current (A)	20	12
Circulating Water Temperature (°C)	25-45	25-45
Circulating Water Flow	50ml/Min	30ml/Min
Circulation Mode	Water pump circulation	
Hydrogen Purity (%)	99.99	99.99
Water Electrolysis Method	MEA	MEA
Maximum Pressure Resistance	0.8Mpa	0.8Mpa
TDS — Anode Water	≤1	≤1
TDS — Cathode Water	/	/
Single - cell Voltage (v)	1. 75-2.5	1. 75-2.5
Dimensions (excluding Lugs)	74*74*23	58*48*23
Effective Area of MEA	53.5*53.5	43*33
Application Fields	The fuel and carrier gas for gas chromatography (GC), reaction gas for electrolytic conductivity detector (ELCD) and atomic emission spectrometry detector (ED), hydrogen-rich water generator; hydrogen-oxygen generator, etc.	

- Independent R & D and production: Superior materials, Exquisite processes
- High purity hydrogen, Long service life
- High pressure resistance: Capable of producing high-pressure hydrogen
- High current density, Low power consumption, stable voltage
- Safe and reliable, Stable performance