DEVELOPING HYDROGEN ENERGY
AND BUILDING A HYDROGEN SOCIETY

HeleTitanium
MATERIALS, ENGINEERING, MACHINING



PREMIUM PROVIDER OF PEM WATER ELECTROLYSIS HYDROGEN PRODUCTION EQUIPMENT

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CHUNHUA HYDROGEN TECHNOLOGY CO. , LTD.

CHUNHUA HYDROGEN ENERGY TECHNOLOGY (HUNAN) CO. , LTD.

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- PEM Hydrogen Production System
- Integrated Hydrogen Production and Refueling Unit
- Hydrogen Energy Training Equipment
- PEM Electrolyzer Testing Platform
- Megawatt-scale PEM Electrolyzer
- Industrial-grade PEM Electrolyzer
- Commercial & Residential PEM Electrolyzer



COMPANY PROFILE



Founding Inventor of PEM Water Electrolysis Hydrogen Production Technology

Vice Chairmanship Organization of China New Energy Overseas Development Alliance

Vice President Organization of All Japan Chinese Science Promotion Association

Premium Supplier of PEM Water Electrolysis Hydrogen Production Equipment

Chunhua Hydrogen Energy is a national high-tech enterprise dedicated to the development of the hydrogen energy industry. It focuses on the R&D, innovation, production, and sales of PEM water electrolysis hydrogen production equipment. The company has established R&D, production, and operational bases in Songshan Lake, Guangdong Province, and Zhuzhou, Hunan Province, China.

To date, the company has obtained management system certifications including ISO 9001:2015, ISO 14001:2015, and ISO 45001:2018. It possesses a complete independent intellectual property rights system, has participated in the formulation of two national standards, and has been granted multiple national invention patents in the field of PEM water electrolysis hydrogen production. Additionally, it boasts a top-tier hydrogen energy technology R&D team in China, with core members consisting of experts in the hydrogen energy sector both domestically and internationally, bringing years of extensive research experience.

The company's core technology, PEM water electrolysis hydrogen production, is widely applied in renewable energy hydrogen production, energy storage, transportation, construction, industry, military, healthcare, and residential sectors. It achieves fully domestic independent production across the entire industry chain, addressing gaps in the domestic market.



Advance Hydrogen Energy, Build a Hydrogen Society



To Become a Globally Leading PEM Electrolyzer Supplier



Dedication, Wisdom, Vision, Perseverance, Openness, Sharing



The Organizer of Industry, The Innovator of Technology, The Standard-Setter, The Pioneer of Markets

PRODUCTION BASE



Technical R&D Advantages

Complete in-house R&D system with extensive IP and mastery of core PEM electrolysis technology.

Supply Chain Advantages

Integrated system (R&D to service) that shortens development cycles.

Service Advantages

High-standard, efficient, and cost-effective customer-centric solutions with professional customization.













After more than a decade of product development, testing, technological preparation, and market integration, with an investment of over 80 million yuan, the team has established a complete independent intellectual property rights system. It has obtained multiple national invention patents in the field of PEM water electrolysis hydrogen production, participated in the formulation of two national standards, and developed into a first-class hydrogen energy technology R&D team in China with extensive experience in technology research, product development, and industrial production.







CORPORATE HONOR



























淳华氢能荣获
《TERA-Award智慧能源创新大赛》
全球前五强"成长之星"单项奖



Invention Patent Certificate



Possesses several core invention patents in the PEM water electrolysis hydrogen production technology.

Participated in the development of national standards.

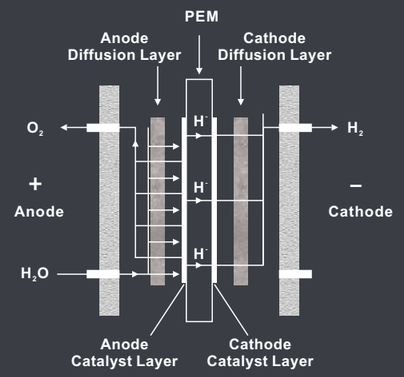
The company participated in the formulation of two hydrogen industry standards: "Technical Specifications for Pressure-Type Water Electrolysis Hydrogen Production Systems" (GB/T 37562-2019) and "Safety Requirements for Pressure-Type Water Electrolysis Hydrogen Production Systems" (GB/T 37563-2019).



CORE TECHNOLOGIES AND FEATURES

PEM water electrolysis uses renewable electricity to split water into ultra-pure (99.999%) hydrogen and oxygen with zero emissions. As the most promising electrolysis technology, it is efficient, compact, and responsive.

Chunhua Hydrogen Energy innovates in PEM electrolyzer production to become a leading global provider.



Independently masters the core technology of PEM water electrolysis for hydrogen production.

Series of high-efficiency membrane electrode preparation and production technologies	Highly corrosion-resistant current collector preparation and production technologies	High-performance bipolar plate design technology and machining processes
High-efficiency high-pressure sealing structure design technology and production processes	Series of PEM water electrolysis stack design and integrated testing technologies	PEM water electrolysis hydrogen production system design and system integration technology

Technical Features

High-Pressure Ultra-Pure Hydrogen Production:

Hydrogen output pressure reaches up to 3.5 MPa;
hydrogen purity exceeds 99.999%, with a dew point below -74°C.

Stable Performance & Long Service Life:

Extended lifespan, low operating temperature, consistent performance, and low failure rate. Hydrogen pressure fluctuation during operation remains within 0.05 MPa.

High Current Density & Compact Design:

Highly integrated, safe, reliable, user-friendly, compact size, and easy installation.



Wide-Load Range & Fast Response:

Strong adaptability to load fluctuations; hydrogen production capacity is continuously adjustable from 20 to 120%, making it suitable for intermittent power sources such as wind and solar energy.

Precise Monitoring & High Safety:

Equipped with single-cell voltage monitoring capability to ensure consistency among cells and precise system control.
Includes hydrogen leakage detection and comprehensive safety protection functions, such as emergency shutdown and interlock protection under emergency conditions.

CORE COMPETITIVENESS



Customization Services:

- **Functional:** Parametric tuning (temp./explosion-proof), interface expansion
- **Structural:** Resizing, modular design, lightweight optimization
- **Materials:** Medical silicone, aerospace aluminum
- **Appearance:** Logo engraving, color customization
- **Packaging:** Multi-language manuals, eco-friendly materials

Comprehensive PEM Water Electrolysis Hydrogen Production Solutions

01 Civilian-grade PEM Water Electrolyzers



02 Industrial-grade PEM Water Electrolyzers



03 PEM Water Electrolysis Hydrogen Production Systems



04 Integrated Hydrogen Production and Refueling Equipment



05 Hydrogen Energy Training and Educational Kits



06 PEM Electrolyzer Testing Platforms



07 Hydrogen Inhalation Machines & Hydrogen-rich Water Generator Series Solutions



08 Hydrogen Agriculture Series Solutions



09 Hydrogen Water Bath & Shower Series Solutions



Hydrogen Production System Equipment

PEM Water Electrolysis Hydrogen Production System | CH-200Nm³/h

Tailored solutions available for specialized applications.

Proton Exchange Membrane (PEM) water electrolysis hydrogen production technology is a novel solution aligned with national energy strategies. This fully integrated system electrolyzes pure water to rapidly generate hydrogen with a purity exceeding 99.999%.



- High-pressure hydrogen productiondelivering high-purity hydrogen
- Hydrogen leakage detection with comprehensive safety protection functions
- High product efficiency and strong load adaptability
- Single-cell voltage monitoring for precise control over hydrogen generation
- Cold/hot start capability with high efficiency and low energy consumption

Parameter Name	Unit	Technical Specification
Gas Production Rate	Nm^3/h	300
Hydrogen Production Rate	Nm^3/h	200
Operating Temperature	°C	5-65
Hydrogen Purity	%	99.999
Dew Point	°C	-70
Feed Water Quality Requirements	/	ASTM D1193 Type I Deionized Water (> 10 MΩ·cm)
Maximum Allowable Pressure	MPa	3.0
Power Supply Voltage	V	380/10K
Dimensions	(L*W*H) mm	6100*2400*2600
DC Power Consumption	$kW·h/Nm^3H_2$	4.4
Wide Power Range	%	20-120
Application Fields	Off-grid photovoltaic hydrogen production;Wind-powered hydrogen generation; Cogeneration (CHP);Semiconductor industry;Integrated multi-energy independent microgrids.	

Hydrogen Production System Equipment

PEM Water Electrolysis Hydrogen Production System | CH-50Nm³/h

Tailored solutions available for specialized applications.



- High-pressure hydrogen productiondelivering high-purity hydrogen
- Hydrogen leakage detection with comprehensive safety protection functions
- High product efficiency and strong load adaptability
- Single-cell voltage monitoring for precise control over hydrogen generation
- Cold/hot start capability with high efficiency and low energy consumption

Parameter Name	Unit	Technical Specification
Gas Production Rate	Nm^3/h	75
Hydrogen Production Rate	Nm^3/h	50
Operating Temperature	°C	5-65
Hydrogen Purity	%	99.999
Dew Point	°C	-70
Feed Water Quality Requirements	/	ASTM D1193 Type I Deionized Water (> 10 MΩ·cm)
Maximum Allowable Pressure	MPa	3.0
Power Supply Voltage	V	380
Hydrogen Generation Cabinet Dimensions	(L*W*H) mm	3500*1300*2400
Power Distribution Cabinet Dimensions	(L*W*H) mm	1100*1300*2400
DC Power Consumption	$kW·h/Nm^3H_2$	4.4
Wide Power Range	%	20-120
Application Fields	Off-grid photovoltaic hydrogen production;Wind-powered hydrogen generation; Cogeneration (CHP);Semiconductor industry;Integrated multi-energy independent microgrids.	

Hydrogen Production System Equipment

PEM Water Electrolysis Hydrogen Production System | CH-10Nm³/h

Tailored solutions available for specialized applications.





- High-pressure hydrogen productiondelivering high-purity hydrogen
- Hydrogen leakage detection with comprehensive safety protection functions
- High product efficiency and strong load adaptability
- Single-cell voltage monitoring for precise control over hydrogen generation
- Cold/hot start capability with high efficiency and low energy consumption

Parameter Name	Unit	Technical Specification
Gas Production Rate	Nm^3/h	15
Hydrogen Production Rate	Nm^3/h	10
Operating Temperature	°C	5-65
Hydrogen Purity	%	99.999
Dew Point	°C	-70
Feed Water Quality Requirements	/	ASTM D1193 Type I Deionized Water (> 10 MΩ·cm)
Maximum Allowable Pressure	MPa	3.0
Power Supply Voltage	V	380
Dimensions	(L*W*H) mm	3800*1450*2080
DC Power Consumption	$kW·h/Nm^3H_2$	4.4
Wide Power Range	%	20-120
Application Fields	Off-grid photovoltaic hydrogen production;Wind-powered hydrogen generation; Cogeneration (CHP);Semiconductor industry;Integrated multi-energy independent microgrids.	

Hydrogen Production System Equipment

PEM Water Electrolysis Hydrogen Production System | CH-6Nm³/h

Tailored solutions available for specialized applications.





- High-pressure hydrogen productiondelivering high-purity hydrogen
- Hydrogen leakage detection with comprehensive safety protection functions
- High product efficiency and strong load adaptability
- Single-cell voltage monitoring for precise control over hydrogen generation
- Cold/hot start capability with high efficiency and low energy consumption

Parameter Name	Unit	Technical Specification
Gas Production Rate	Nm^3/h	9
Hydrogen Production Rate	Nm^3/h	6
Operating Temperature	°C	5-65
Hydrogen Purity	%	99.999
Dew Point	°C	-70
Feed Water Quality Requirements	/	ASTM D1193 Type I Deionized Water (> 10 MΩ·cm)
Maximum Allowable Pressure	MPa	3.0
Power Supply Voltage	V	380
Dimensions	(L*W*H) mm	1800*1100*2200
DC Power Consumption	$kW·h/Nm^3H_2$	4.4
Wide Power Range	%	20-120
Application Fields	Off-grid photovoltaic hydrogen production;Wind-powered hydrogen generation; Cogeneration (CHP);Semiconductor industry;Integrated multi-energy independent microgrids.	

Hydrogen Production System Equipment

PEM Water Electrolysis Hydrogen Production System | CH-5Nm³/h

Tailored solutions available for specialized applications.





- High-Pressure Hydrogen Production of Ultra-High Purity Hydrogen
- Hydrogen leakage detection with comprehensive safety protection functions
- High product efficiency and strong load adaptability
- Single-cell voltage monitoring for precise control over hydrogen generation
- Cold/hot start capability with high efficiency and low energy consumption

Parameter Name	Unit	Technical Specification
Gas Production Rate	Nm^3/h	7.5
Hydrogen Production Rate	Nm^3/h	5
Operating Temperature	°C	5-65
Hydrogen Purity	%	99.5~99.9999999%
Dew Point	°C	-70
Feed Water Quality Requirements	/	ASTM D1193 Type I Deionized Water (> 10 MΩ·cm)
Maximum Allowable Pressure	MPa	3.0
Power Supply Voltage	V	380
Hydrogen Generation Cabinet Dimensions	(L*W*H) mm	1300*950*1930
Power Distribution Cabinet Dimensions	(L*W*H) mm	610*950*1930
Weight	kg	900
DC Power Consumption	$kW·h/Nm^3H_2$	4.4
Wide Power Range	%	20-120
Application Fields	Off-grid photovoltaic hydrogen production;Wind-powered hydrogen generation; Cogeneration (CHP);Semiconductor industry;Integrated multi-energy independent microgrids.	

Hydrogen Production System Equipment

PEM Water Electrolysis Hydrogen Production System | CH-2Nm³/h

Tailored solutions available for specialized applications.





- High-Pressure Hydrogen Production of Ultra-High Purity Hydrogen
- Hydrogen leakage detection with comprehensive safety protection functions
- High product efficiency and strong load adaptability
- Single-cell voltage monitoring for precise control over hydrogen generation
- Cold/hot start capability with high efficiency and low energy consumption

Parameter Name	Unit	Technical Specification
Gas Production Rate	Nm^3/h	3
Hydrogen Production Rate	Nm^3/h	2
Operating Temperature	°C	5-65
Hydrogen Purity	%	99.5~99.9999999%
Dew Point	°C	-70
Feed Water Quality Requirements	/	ASTM D1193 Type I Deionized Water (> 10 MΩ·cm)
Maximum Allowable Pressure	MPa	3.0
Power Supply Voltage	V	380
Dimensions	(L*W*H) mm	1300*950*1830
DC Power Consumption	$kW·h/Nm^3H_2$	4.4
Wide Power Range	%	20-120
Application Fields	Glass manufacturing;Metal smelting;Cogeneration (CHP); Semiconductor industry;Integrated multi-energy independent microgrids	

Hydrogen Production System Equipment

PEM Water Electrolysis Hydrogen Production System | CH-1Nm³/h

Tailored solutions available for specialized applications.





- High-Pressure Hydrogen Production of Ultra-High Purity Hydrogen
- Hydrogen leakage detection with comprehensive safety protection functions
- High product efficiency and strong load adaptability
- Single-cell voltage monitoring for precise control over hydrogen generation
- Cold/hot start capability with high efficiency and low energy consumption

Parameter Name	Unit	Technical Specification
Gas Production Rate	Nm^3/h	1.5
Hydrogen Production Rate	Nm^3/h	1
Operating Temperature	°C	5-65
Hydrogen Purity	%	99.5~99.9999999%
Dew Point	°C	-70
Feed Water Quality Requirements	/	ASTM D1193 Type I Deionized Water (> 10 MΩ·cm)
Maximum Allowable Pressure	MPa	3.0
Power Supply Voltage	V	380
Dimensions	(L*W*H) mm	1100*800*1600
Weight	kg	400
DC Power Consumption	$kW·h/Nm^3H_2$	4.4
Wide Power Range	%	20-120
Application Fields	Glass manufacturing;Metal smelting;Cogeneration (CHP); Semiconductor industry;Integrated multi-energy independent microgrids	

Hydrogen Production System Equipment

PEM Water Electrolysis Hydrogen Production System | CH-0.6Nm³/h

Tailored solutions available for specialized applications.





- High-Pressure Hydrogen Production of Ultra-High Purity Hydrogen
- Hydrogen leakage detection with comprehensive safety protection functions
- High product efficiency and strong load adaptability
- Single-cell voltage monitoring for precise control over hydrogen generation
- Cold/hot start capability with high efficiency and low energy consumption

Parameter Name	Unit	Technical Specification
Gas Production Rate	Nm^3/h	0.9
Hydrogen Production Rate	Nm^3/h	0.6
Operating Temperature	°C	5-65
Hydrogen Purity	%	99.5~99.9999999%
Dew Point	°C	-70
Feed Water Quality Requirements	/	ASTM D1193 Type I Deionized Water (> 10 MΩ·cm)
Maximum Allowable Pressure	MPa	3.0
Power Supply Voltage	V	220
Dimensions	(L*W*H) mm	1100*800*1600
Weight	kg	270
DC Power Consumption	$kW·h/Nm^3H_2$	4.4
Wide Power Range	%	20-120
Application Fields	Glass manufacturing;Metal smelting;Cogeneration (CHP); Semiconductor industry;Integrated multi-energy independent microgrids	

Hydrogen Production System Equipment

PEM Water Electrolysis Integrated Hydrogen Production and Refueling Unit

Tailored solutions available for specialized applications.

The system comprises key components such as the electrolyzer, power supply, gas-liquid separation and purification units, PLC controls, circulation pumps, dryers, valves, piping, and safety systems. It enables households to produce hydrogen and refuel hydrogen-powered bicycles, while also supplying gas for semiconductors, chemical synthesis, and metal processing industries.



- One-touch startup/ shutdown with automatic fault detection and diagnosis
- Automatic tracking, protection, and control system
- High efficiency and fast response
- High-purity, non-corrosive, and pollution-free hydrogen output
- High electrolysis efficiency with low power consumption

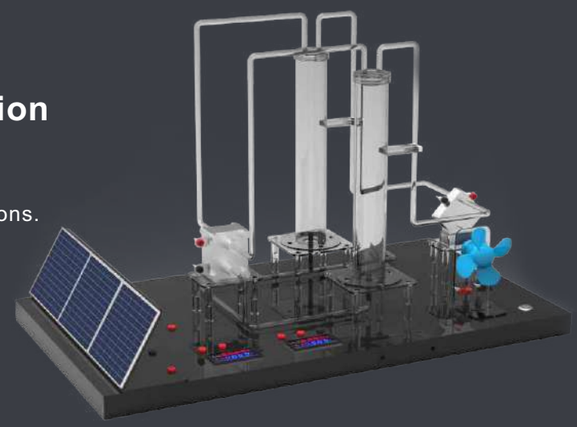
Parameter Name	Unit	Technical Specification
Hydrogen Production	mL/min	0-4000
Oxygen Production	mL/min	0-2000
Hydrogen Purity (Before Purification)	%	99.8
Hydrogen Purity (After Purification)	%	＞99.999
Operating Temperature	°C	5~60
Operating Pressure	MPaG	≤1.6
Feed Water Pressure	barg	1~4
Power Supply Voltage	V	220
Electrolysis Efficiency	%	＞77.7%HHV
Start-up Time	min	0.2
Dew Point	°C	＜-45
System Dimensions (With Wheels)	(L*W*H) mm	500*400*505
System Dimensions (Without Wheels)	(L*W*H) mm	500*400*465

Practical Training Teaching Aid

Photovoltaic Hydrogen Production Demonstration Teaching Aid

Tailored solutions available for specialized applications.

This integrated teaching platform combines solar power, electrolysis, and fuel cell technology. Its visual, interactive setup demonstrates the entire process of renewable hydrogen production and use, supporting education and research in new energy.



- Transparent piping design for high visibility
- Modular design, easy to understand and teach
- Low voltage and power, safe and reliable
- Suitable for teaching, training, and research
- Visual interface with real-time data display

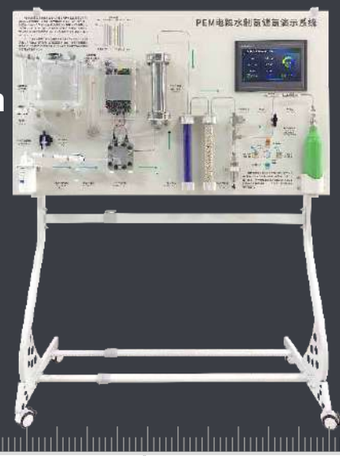
Parameter Category	Parameter Name	Unit	Technical Specification
Photovoltaic Panel	Total Power	W	12
	Rated Voltage	V	5
	Rated Current	A	2.4
PEM Electrolyzer	Rated Hydrogen Production Rate	mL/min	40
	Power Supply Voltage	V	3
	Rated Current	A	6
Fuel Cell	Rated Power	W	＜1
	Rated Voltage	V	0.9
	Rated Current	A	1
Load	Power	W	0.019
	Rated Voltage	V	1
	Rated Current	mA	18.9
Demonstration Teaching Aid	Dimensions	(L*W*H) mm	750*420*330
	Weight	kg	6.2

Practical Training Teaching Aid

PEM Water Electrolysis Hydrogen Production and Storage Demonstration System

Tailored solutions available for specialized applications.

This integrated teaching platform demonstrates PEM electrolysis for hydrogen production and storage. It covers the full process from generation to purification and storage, visually showing how renewable energy is converted into green hydrogen. Using pure water instead of alkaline electrolytes ensures safe, reliable operation in lab settings. With a modular interface and real-time monitoring, it supports hands-on learning and research in energy, chemistry, and engineering disciplines.



- Modular Design & Quantitative Experimental Data
- Integrated PEM Hydrogen Production and Solid-State Hydrogen Storage
- Triple Protection Mechanism with Intelligent Monitoring System
- Supports Scientific Research Projects
- Visual Interface with Real-Time Data Monitoring

Category	Parameter Name	Unit	Technical Specification
PEM Electrolyzer	Hydrogen Production Rate	mL/min	500
	Oxygen Production Rate	mL/min	250
	Power Supply Voltage	V	9
	Power Supply Current	A	25
	Dim. (w/o Lugs/Conn.)	(L*W*H) mm	94*39*106
	Dim. (w/ Lugs/Conn.)	(L*W*H) mm	109*58*106
Solid-State Hydrogen Storage Tank	Cylinder Diameter	mm	60
	Cylinder Height	mm	258
	Weight	kg	1.5
	Hydrogen Storage Capacity	g	>22
	Hydrogen Filling Pressure	MPa	1.0
	Continuous Hydrogen Discharge Pressure	MPa	0.6
	Hydrogen Discharge Rate	L/min	>4
Demonstration System	Dimensions (Excluding Bracket)	(L*W*H) mm	1200*700*311
	Weight (Excluding Bracket)	kg	18
	Weight (Including Bracket)	kg	28

Practical Training Teaching Aid

Hydrogen Fuel Cell Power Generation Demonstration System

Tailored solutions available for specialized applications.

This integrated teaching platform demonstrates the complete hydrogen-to-power process, featuring solid-state storage, PEM fuel cell power generation, and intelligent power management. It reliably showcases core hydrogen energy conversion technology and supports experimental education and research in renewable energy, chemical engineering, and electrical automation.



- Modular Design & Quantitative Experimental Data
- Integrated Solid-State Hydrogen Storage & PEMFC
- Triple Protection Mechanism with Intelligent Monitoring System
- Supports Scientific Research Projects
- Visual Interface with Real-Time Data Monitoring

Category	Parameter Name	Unit	Technical Specification
Solid-State Hydrogen Storage Tank	Cylinder Diameter	mm	60
	Cylinder Height	mm	258
	Weight	kg	1.5
	Hydrogen Storage Capacity	g	>22
	Hydrogen Filling Pressure	MPa	1.0
	Continuous Hydrogen Discharge Pressure	MPa	0.6
	Hydrogen Discharge Rate	L/min	>4
Fuel Cell	Rated Voltage	V	19.8
	Rated Current	A	10.2
	Efficiency	%	⩾45
	Hydrogen Pressure	MPa	0.035~0.05
	Hydrogen Purity	%	⩾99.99(CO⩽1PPM)
	Theoretical Hydrogen Consumption at Rated Power	L/min	2.89
	Theoretical Air Consumption at Rated Power	L/min	114.6
	Bare Stack Weight	kg	1.43
Demonstration System	Dimensions (Excluding Bracket)	(L*W*H) mm	1200*700*276
	Weight (Excluding Bracket)	kg	15
	Weight (Including Bracket)	kg	25

Practical Training Teaching Aid

PEM Water Electrolyzer Simple Test Rig

Tailored solutions available for specialized applications.

This project aims to build a low-cost test bench for electrolyzers, enabling real-time monitoring and control of operating parameters to test their operational efficiency and stability.

- Modular High-Precision Design for Standardized Testing Environments
- Capable of Real-Time Monitoring and Adjustment of Power Parameters
- Electrolyzer Operation Status Monitoring



Category	Parameter Name	Unit	Technical Specification
Main Unit System	Display Panel	/	Digital Tube Display
	Communication Interface	/	USB
	Dimensions	(L*W*H) mm	280*390*355
Power Module	Voltage Range	V	0-15
	Current Range	A	0-30
	Current Accuracy in Constant Current Mode	mA	≤0.5%+30
Water Management Module	Medium	/	Deionized Water
	Water Flow Rate Range	mL/min	300
	Water Replenishment Method	/	Manual One-Button Water Refill
	Temperature Adjustment Range	/	Room Temp ~60°C (±1%)
	Conductivity	μS/cm	≤1
Testing Function	Performance Test	Supports IV Curve Scanning Allows manual voltage adjustment with corresponding current recording	
	Stability Test	Supports long-duration operation in Constant Current (CC) or Constant Voltage (CV) mode Records I-t curve data	
Water Treatment System	Water Purification	Integrated resin filtration unit	
Data Management	Real-Time Monitoring	Real-time display of temperature, voltage, current, and total operating time	
	Data Logging	Automatically records test data points	
	Data Export	Supports export of test data (IV, I-t)	
Safety Protection	Electrical Safety	Includes protection against over-voltage, over-current, and short circuit	
	System Safety	Automatic fault diagnosis and alert function	
	Power Failure Protection	Automatically saves data and enters safe state during unexpected power outages	
Compatibility	Electrolyzer Type	Primarily designed for PEM electrolyzers	
	Installation Method	Supports quick installation and replacement of user-defined electrolyzers	

Practical Training Teaching Aid

PEM Water Electrolyzer Single-Channel Test Platform

Tailored solutions available for specialized applications.

This project involves the independent development of a modular, high-precision single-channel test platform for PEM electrolyzers. It provides a standardized testing environment for teaching experiments, scientific research, and industry-academia collaboration, with focus on addressing core challenges such as electrolyzer performance evaluation, operating condition simulation, and service life prediction.

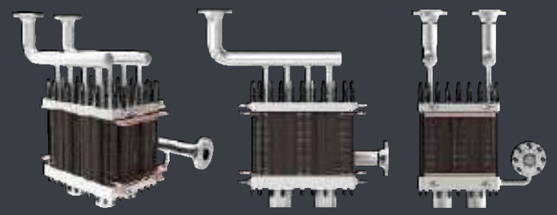


Category	Parameter Name	Unit	Technical Specification
Main Unit System	Display Panel	/	Touch Screen
	Alarm Component	/	Buzzer
	Communication Interface	/	USB, RJ45 Ethernet
	Dimensions	(L*W*H) mm	500*400*540
Hydrogen System Module	Back Pressure Range	MPa	0-0.4 MPa (3 MPa Optional)
	Flow Measurement Accuracy	/	Optional
	Back Pressure Accuracy	%FS	0.25
Power Module	Range	V	0-3
	Voltage Range	V	0-15
	Voltage Scanning Measurement Accuracy	%	±0.2
	Current Range	A	0-60
	Current Accuracy in Constant Current Mode	mA	≤1%+30
Water Management Module	Medium	/	Deionized Water
	Adjustable Water Flow Range	mL/min	0.15-600
	Water Replenishment Method	/	Auto Water Refill
	Conductivity	μS/cm	≤1.4
Temperature Control Module	Temperature Adjustment Range	/	Room Temp ~80°C (±1%)
	Temperature Control Accuracy	°C	⩽±0.5
	Temperature Measurement Accuracy	°C	⩽±0.5°C (Resolution: 0.01°C)
Data Acquisition	Real-time acquisition and recording of voltage (voltage sweep measurement 0-3V), current, temperature, pressure, flow rate, conductivity, etc.		
Basic Testing Functions	Polarization curve testing, durability testing, voltage monitoring		
Safety Protection	Hydrogen leakage detection, high-pressure alarm, emergency stop button, interlock alarm shutdown		
Structural Design	Modular design, compact layout, 316L stainless steel piping, desktop type		
Optional Functions	Online monitoring of oxygen-in-hydrogen/hydrogen-in-oxygen concentration, oxygen flow monitoring, dedicated test fixture		
Power Supply Characteristics	Programmable DC power supply, supports constant current/constant voltage modes, directly controlled by PLC		

Hydrogen Industry · Megawatt Scale | 50-300 Nm³/h

PEM Water Electrolyzer | 200 Nm³/h

Tailored solutions available for specialized applications.





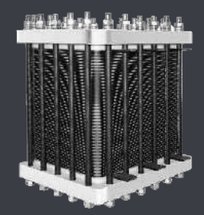
- Independently developed and manufactured
- High pressure tolerance enables high-purity hydrogen production
- Premium materials, precision engineering, extended lifespan.
- Compatible with wide power fluctuations
- High current density with stable voltage operation

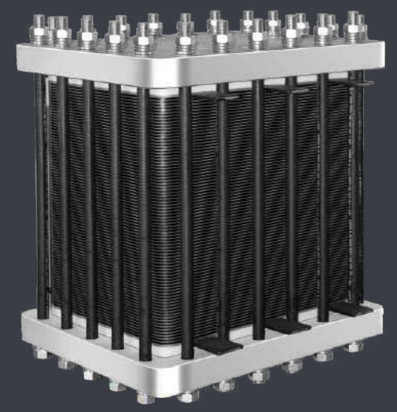
Product Model	CH-200Nm³/h type PEME		
Gas Production Rate	Nm³/h	300	H_2/O_2 Mix Out
Hydrogen Production Rate	Nm³/h	200	Pure Hydrogen Output
Circulating Water Temperature	°C	25-70	
Water Consumption	L/h	200	Pure Water / Deionized Water
Circulating Water Conductivity	μS/cm	≯1	Compliant with ISO 3696:1987 Grade 1 Standard
Circulation Method	/	Water Pump Circulation	
Hydrogen Purity	%	99.99	After Drying
Water Electrolysis Method	/	Water Electrolysis	Aproton Exchange Membrane (PEM) Electrolysis
Maximum Withstanding Pressure	MPa	3.5	
Constant Current	A	3700	
Dim. (w/o Lugs/Conn.)	(L*W*H) mm	970*805*1205	
Dim. (w/ Lugs/Conn.)	(L*W*H) mm	970*905*1205	
Weight	kg	/	
Application Fields	On-site hydrogen production for large-scale renewable energy storage, chemical industry, fuel cell systems, hydrogen production and refueling stations, pharmaceuticals, and other related sectors.		

Hydrogen Industry · Megawatt Scale | 50-300 Nm³/h

PEM Water Electrolyzer | 60 Nm³/h

Tailored solutions available for specialized applications.





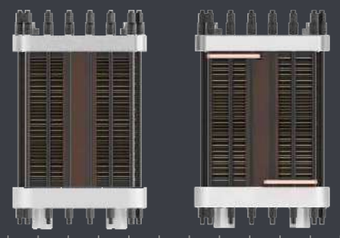
- Independently developed and manufactured
- High pressure tolerance enables high-purity hydrogen production
- Premium materials, precision engineering, extended lifespan.
- Compatible with wide power fluctuations
- High current density with stable voltage operation

Product Model	CH-60Nm³/h type PEME		
Gas Production Rate	Nm³/h	90	H_2/O_2 Mix Out
Hydrogen Production Rate	Nm³/h	60	Pure Hydrogen Output
Circulating Water Temperature	°C	25-70	
Water Consumption	L/h	60	Pure Water / Deionized Water
Circulating Water Conductivity	μS/cm	≯1	Compliant with ISO 3696:1987 Grade 1 Standard
Circulation Method	/	Water Pump Circulation	
Hydrogen Purity	%	99.99	After Drying
Water Electrolysis Method	/	Water Electrolysis	Aproton Exchange Membrane (PEM) Electrolysis
Maximum Withstanding Pressure	MPa	3.5	
Constant Current	A	4000-4500	
Dim. (w/o Lugs/Conn.)	(L*W*H) mm	970*805*855	
Dim. (w/ Lugs/Conn.)	(L*W*H) mm	970*905*855	
Weight	kg	/	
Application Fields	On-site hydrogen production for large-scale renewable energy storage, chemical industry, fuel cell systems, hydrogen production and refueling stations, pharmaceuticals, and other related sectors.		

Hydrogen Industry · Megawatt Scale | 50-300 Nm³/h

PEM Water Electrolyzer | 50 Nm³/h

Tailored solutions available for specialized applications.





Independently developed and manufactured	High pressure tolerance enables high-purity hydrogen production	Premium materials, precision engineering, extended lifespan.	Compatible with wide power fluctuations	High current density with stable voltage operation

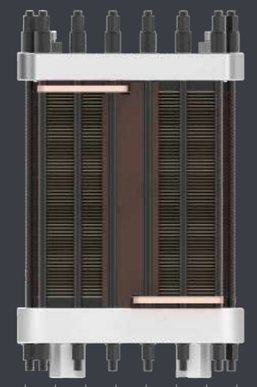
Product Model		CH-50Nm³/h type PEME	
Gas Production Rate	Nm³/h	75	H_2/O_2 Mix Out
Hydrogen Production Rate	Nm³/h	50	Pure Hydrogen Output
Circulating Water Temperature	°C	25-70	
Water Consumption	m³/h	≤12	Pure Water / Deionized Water
Circulating Water Conductivity	μS/cm	≥1	Compliant with ISO 3696:1987 Grade 1 Standard
Circulation Method	/	Water Pump Circulation	
Hydrogen Purity	%	99.99	After Drying
Water Electrolysis Method	/	Water Electrolysis	Aproton Exchange Membrane (PEM) Electrolysis
Maximum Withstanding Pressure	MPa	3.5	
Number of Layers	PCS	86	
Single Cell Voltage	V	1.75-2.5	
Power Supply – Constant Current	A	1400	Rated
Power Supply – Constant Voltage	V	258	Configurable voltage up to 258V required
Dim. (w/o Lugs/Conn.)	(L*W*H) mm	/	
Dim. (w/ Lugs/Conn.)	(L*W*H) mm	940*770*1160	
Weight	kg	/	
Application Fields	On-site hydrogen production for large-scale renewable storage, chemicals, fuel cells, hydrogen stations, pharmaceuticals, and related industries.		

Hydrogen Industry · Medium Scale | 1-10 Nm³/h

PEM Water Electrolyzer | 10 Nm³/h

Tailored solutions available for specialized applications.





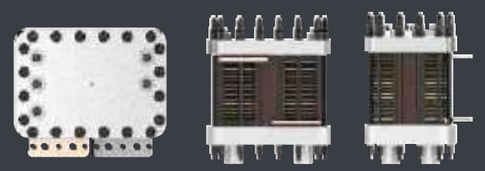
Independently developed and manufactured	High pressure tolerance enables high-purity hydrogen production	Premium materials, precision engineering, extended lifespan.	Compatible with wide power fluctuations	High current density with stable voltage operation

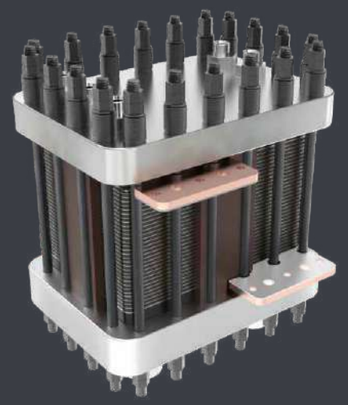
Product Model		CH-10Nm³/h type PEME	
Gas Production Rate	Nm³/h	15	H_2/O_2 Mix Out
Hydrogen Production Rate	Nm³/h	10	Pure Hydrogen Output
Circulating Water Temperature	°C	25-70	
Water Consumption	m³/h	≤2.4	Pure Water / Deionized Water
Circulating Water Conductivity	μS/cm	≥1	Compliant with ISO 3696:1987 Grade 1 Standard
Circulation Method	/	Water Pump Circulation	
Hydrogen Purity	%	99.99	After Drying
Water Electrolysis Method	/	Water Electrolysis	Aproton Exchange Membrane (PEM) Electrolysis
Maximum Withstanding Pressure	MPa	3.5	
Number of Layers	PCS	68	
Single Cell Voltage	V	1.75-2.5	
Power Supply – Constant Current	A	355	Rated
Power Supply – Constant Voltage	V	204	Configurable voltage up to 204V required
Dim. (w/o Lugs/Conn.)	(L*W*H) mm	407*300*765.5	
Dim. (w/ Lugs/Conn.)	(L*W*H) mm	469*344.5*765.5	
Weight	kg	275	
Application Fields	Applications in energy systems (fuel cells, CHP, microgrids), semiconductors, and related fields.		

Hydrogen Industry · Medium Scale | 1-10 Nm³/h

PEM Water Electrolyzer | 5 Nm³/h

Tailored solutions available for specialized applications.





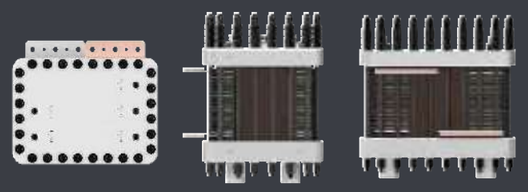
- Independently developed and manufactured
- High pressure tolerance enables high-purity hydrogen production
- Premium materials, precision engineering, extended lifespan.
- Compatible with wide power fluctuations
- High current density with stable voltage operation

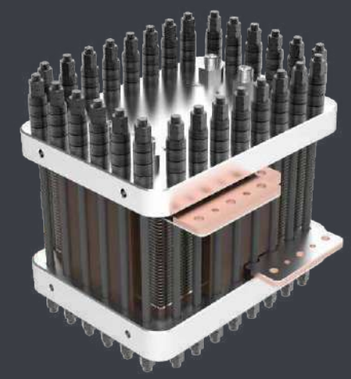
Product Model		CH-5Nm³/h type PEME		
Gas Production Rate		Nm³/h	7.5	H_2/O_2 Mix Out
Hydrogen Production Rate		Nm³/h	5	Pure Hydrogen Output
Circulating Water Temperature		°C	25-70	
Water Consumption		m³/h	≤1.2	Pure Water / Deionized Water
Circulating Water Conductivity		μS/cm	≥1	Compliant with ISO 3696:1987 Grade 1 Standard
Circulation Method		/	Water Pump Circulation	
Hydrogen Purity		%	99.99	After Drying
Water Electrolysis Method		/	Water Electrolysis	Aproton Exchange Membrane (PEM) Electrolysis
Maximum Withstanding Pressure		MPa	3.5	
Number of Layers		PCS	34	
Single Cell Voltage		V	1.75-2.5	
Power Supply	Constant Current	A	355	Rated Current: 355A
	Constant Voltage	V	102	Configurable voltage up to 102V required
Dim. (w/o Lugs/Conn.)		(L*W*H) mm	382*280*431	
Dim. (w/ Lugs/Conn.)		(L*W*H) mm	382*324.5*431	
Weight		kg	95	
Application Fields		Applications in energy systems (fuel cells, CHP, microgrids), semiconductors, and related fields.		

Hydrogen Industry · Medium Scale | 1-10 Nm³/h

PEM Water Electrolyzer | 4 Nm³/h

Tailored solutions available for specialized applications.





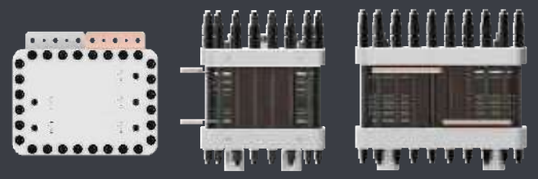
- Independently developed and manufactured
- High pressure tolerance enables high-purity hydrogen production
- Premium materials, precision engineering, extended lifespan.
- Compatible with wide power fluctuations
- High current density with stable voltage operation

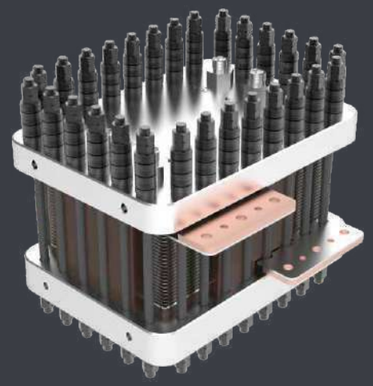
Product Model		CH-4Nm³/h type PEME		
Gas Production Rate		Nm³/h	6	H_2/O_2 Mix Out
Hydrogen Production Rate		Nm³/h	4	Pure Hydrogen Output
Circulating Water Temperature		°C	25-70	
Water Consumption		m³/h	≤0.96	Pure Water / Deionized Water
Circulating Water Conductivity		μS/cm	≥1	Compliant with ISO 3696:1987 Grade 1 Standard
Circulation Method		/	Water Pump Circulation	
Hydrogen Purity		%	99.99	After Drying
Water Electrolysis Method		/	Water Electrolysis	Aproton Exchange Membrane (PEM) Electrolysis
Maximum Withstanding Pressure		MPa	3.5	
Number of Layers		PCS	27	
Single Cell Voltage		V	1.75-2.5	
Power Supply	Constant Current	A	355	Rated Current: 355A
	Constant Voltage	V	81	Configurable voltage up to 81V required
Dim. (w/o Lugs/Conn.)		(L*W*H) mm	382*280*396	
Dim. (w/ Lugs/Conn.)		(L*W*H) mm	382*324.5*396	
Weight		kg	88	
Application Fields		Applications in energy systems (fuel cells, CHP, microgrids), semiconductors, and related fields.		

Hydrogen Industry · Medium Scale | 1-10 Nm³/h

PEM Water Electrolyzer | 3 Nm³/h

Tailored solutions available for specialized applications.





- Independently developed and manufactured
- High pressure tolerance enables high-purity hydrogen production
- Premium materials, precision engineering, extended lifespan.
- Compatible with wide power fluctuations
- High current density with stable voltage operation

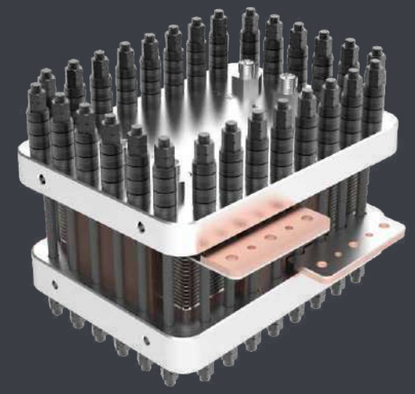
Product Model		CH-3Nm³/h type PEME	
Gas Production Rate	Nm³/h	4.5	H_2/O_2 Mix Out
Hydrogen Production Rate	Nm³/h	3	Pure Hydrogen Output
Circulating Water Temperature	°C	25-70	
Water Consumption	m³/h	≤0.72	Pure Water / Deionized Water
Circulating Water Conductivity	μS/cm	≥1	Compliant with ISO 3696:1987 Grade 1 Standard
Circulation Method	/	Water Pump Circulation	
Hydrogen Purity	%	99.99	After Drying
Water Electrolysis Method	/	Water Electrolysis	Aproton Exchange Membrane (PEM) Electrolysis
Maximum Withstanding Pressure	MPa	3.5	
Number of Layers	PCS	21	
Single Cell Voltage	V	1.75-2.5	
Power Supply – Constant Current	A	355	Rated Current: 355A
Power Supply – Constant Voltage	V	63	Configurable voltage up to 63V required
Dim. (w/o Lugs/Conn.)	(L*W*H) mm	382*280*357	
Dim. (w/ Lugs/Conn.)	(L*W*H) mm	382*324.5*357	
Weight	kg	81	
Application Fields	Applications in energy systems (fuel cells, CHP, microgrids), semiconductors, and related fields.		

Hydrogen Industry · Medium Scale | 1-10 Nm³/h

PEM Water Electrolyzer | 2 Nm³/h

Tailored solutions available for specialized applications.





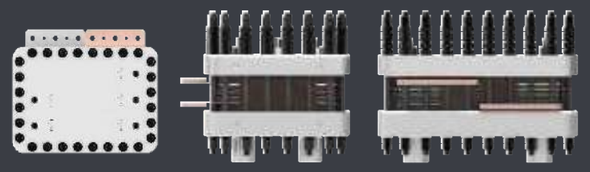
- Independently developed and manufactured
- High pressure tolerance enables high-purity hydrogen production
- Premium materials, precision engineering, extended lifespan.
- Compatible with wide power fluctuations
- High current density with stable voltage operation

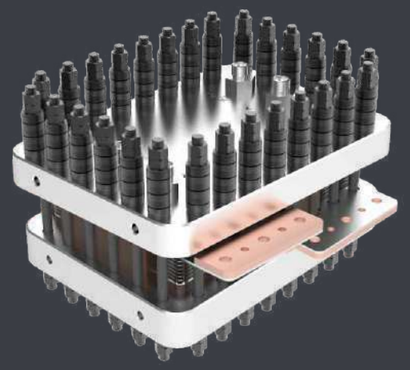
Product Model		CH-2Nm³/h type PEME	
Gas Production Rate	Nm³/h	3	H_2/O_2 Mix Out
Hydrogen Production Rate	Nm³/h	2	Pure Hydrogen Output
Circulating Water Temperature	°C	25-70	
Water Consumption	m³/h	≤0.48	Pure Water / Deionized Water
Circulating Water Conductivity	μS/cm	≥1	Compliant with ISO 3696:1987 Grade 1 Standard
Circulation Method	/	Water Pump Circulation	
Hydrogen Purity	%	99.99	After Drying
Water Electrolysis Method	/	Water Electrolysis	Aproton Exchange Membrane (PEM) Electrolysis
Maximum Withstanding Pressure	MPa	3.5	
Number of Layers	PCS	14	
Single Cell Voltage	V	1.75-2.5	
Power Supply – Constant Current	A	355	Rated Current: 355A
Power Supply – Constant Voltage	V	42	Configurable voltage up to 42V required
Dim. (w/o Lugs/Conn.)	(L*W*H) mm	382*280*321	
Dim. (w/ Lugs/Conn.)	(L*W*H) mm	382*324.5*321	
Weight	kg	75	
Application Fields	Applications in energy systems (fuel cells, CHP, microgrids), semiconductors, and related fields.		

Hydrogen Industry · Medium Scale | 1-10 Nm³/h

PEM Water Electrolyzer | 1 Nm³/h

Tailored solutions available for specialized applications.





- Independently developed and manufactured
- High pressure tolerance enables high-purity hydrogen production
- Premium materials, precision engineering, extended lifespan.
- Compatible with wide power fluctuations
- High current density with stable voltage operation

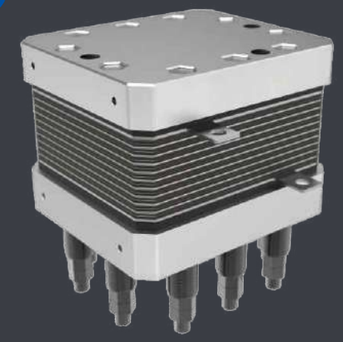
Product Model		CH-1Nm³/h type PEME	
Gas Production Rate	Nm³/h	1.5	H_2/O_2 Mix Out
Hydrogen Production Rate	Nm³/h	1	Pure Hydrogen Output
Circulating Water Temperature	°C	25-70	
Water Consumption	m³/h	⩽0.24	Pure Water / Deionized Water
Circulating Water Conductivity	μS/cm	⩾1	Compliant with ISO 3696:1987 Grade 1 Standard
Circulation Method	/	Water Pump Circulation	
Hydrogen Purity	%	99.99	After Drying
Water Electrolysis Method	/	Water Electrolysis	Aproton Exchange Membrane (PEM) Electrolysis
Maximum Withstanding Pressure	MPa	3.5	
Number of Layers	PCS	7	
Single Cell Voltage	V	1.75-2.5	
Power Supply – Constant Current	A	355	Rated Current: 355A
Power Supply – Constant Voltage	V	21	Configurable voltage up to 21V required
Dim. (w/o Lugs/Conn.)	(L*W*H) mm	382*280*290	
Dim. (w/ Lugs/Conn.)	(L*W*H) mm	382*324.5*290	
Weight	kg	68	
Application Fields	Applications in energy systems (fuel cells, CHP, microgrids), semiconductors, and related fields.		

Hydrogen Industry · Small to Medium Scale | 0.2-1 Nm³/h

PEM Water Electrolyzer | 0.6 Nm³/h

Tailored solutions available for specialized applications.





- Independently developed and manufactured
- High pressure tolerance enables high-purity hydrogen production
- Premium materials, precision engineering, extended lifespan.
- Compatible with wide power fluctuations
- High current density with stable voltage operation

Product Model		CH-0.6Nm³/h type PEME	
Gas Production Rate	Nm³/h	0.9	H_2/O_2 Mix Out
Hydrogen Production Rate	Nm³/h	0.6	Pure Hydrogen Output
Circulating Water Temperature	°C	25-70	
Water Consumption	mL/min	⩽2400	Pure Water / Deionized Water
Circulating Water Conductivity	μS/cm	⩾1	Compliant with ISO 3696:1987 Grade 1 Standard
Circulation Method	/	Water Pump Circulation	
Hydrogen Purity	%	99.99	After Drying
Water Electrolysis Method	/	Water Electrolysis	Aproton Exchange Membrane (PEM) Electrolysis
Maximum Withstanding Pressure	MPa	3.5	
Number of Layers	PCS	18	
Single Cell Voltage	V	1.75-2.5	
Power Supply – Constant Current	A	80	Rated
Power Supply – Constant Voltage	V	54	
Dim. (w/o Lugs/Conn.)	(L*W*H) mm	156*136*142	
Dim. (w/ Lugs/Conn.)	(L*W*H) mm	156*156.7*242.5	
Weight	kg	18	
Application Fields	Hydrogen Generators, Semiconductor Industry, Power Plants, Combined Heat and Power (CHP) Systems, Laboratory Hydrogen Applications.		

Household Grade · Small Scale | 0.06-0.5 Nm³/h

PEM Water Electrolyzer | 5000 mL/min

Tailored solutions available for specialized applications.





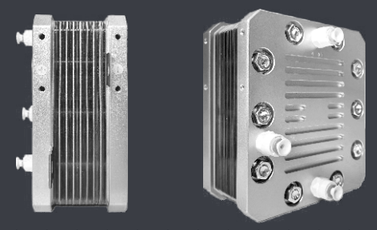
- Independently developed and manufactured
- High pressure tolerance enables high-purity hydrogen production
- Premium materials, precision engineering, extended lifespan.
- High current density with stable voltage operation

Product Model		CHL13-1 type PEME	
Gas Production Rate	mL/min	7500	H_2/O_2 Mix Out
Hydrogen Production Rate	mL/min	5000	Pure Hydrogen Output
Circulating Water Temperature	°C	25-50	
Water Consumption	mL/min	≮1400	Pure Water / Deionized Water
Circulating Water Conductivity	μS/cm	≯1	Compliant with ISO 3696:1987 Grade 1 Standard
Circulation Method	/	Water Pump Circulation	
Hydrogen Purity	%	99.99	After Drying
Water Electrolysis Method	/	Water Electrolysis	Aproton Exchange Membrane (PEM) Electrolysis
Maximum Withstanding Pressure	MPa	0.5	
Single Cell Voltage	V	1.75-2.5	
Power Supply – Constant Current	A	55	
Power Supply – Constant Voltage	V	39	
Dim. (w/o Lugs/Conn.)	(L*W*H) mm	136*87*156	
Dim. (w/ Lugs/Conn.)	(L*W*H) mm	157*104*156	
Weight	kg	4.5	
Application Fields	GC Hydrogen (Fuel & Carrier); ELCD/AED Reaction Gas; Hydrogen Water Generators; Hydrogen Inhalers.		

Household Grade · Small Scale | 0.06-0.5 Nm³/h

PEM Water Electrolyzer | 3200 mL/min

Tailored solutions available for specialized applications.





- Independently developed and manufactured
- High pressure tolerance enables high-purity hydrogen production
- Premium materials, precision engineering, extended lifespan.
- High current density with stable voltage operation

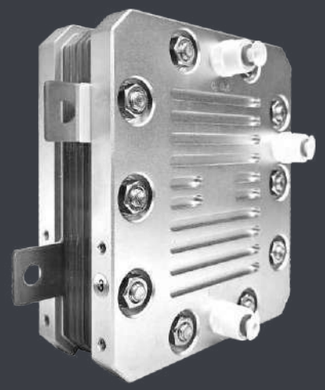
Product Model		CHL8-1 type PEME	
Gas Production Rate	mL/min	4800	H_2/O_2 Mix Out
Hydrogen Production Rate	mL/min	3200	Pure Hydrogen Output
Circulating Water Temperature	°C	25-50	
Water Consumption	mL/min	≮1400	Pure Water / Deionized Water
Circulating Water Conductivity	μS/cm	≯1	Compliant with ISO 3696:1987 Grade 1 Standard
Circulation Method	/	Water Pump Circulation	
Hydrogen Purity	%	99.99	After Drying
Water Electrolysis Method	/	Water Electrolysis	Aproton Exchange Membrane (PEM) Electrolysis
Maximum Withstanding Pressure	MPa	0.5	
Single Cell Voltage	V	1.75-2.5	
Power Supply – Constant Current	A	55	
Power Supply – Constant Voltage	V	24	
Dim. (w/o Lugs/Conn.)	(L*W*H) mm	136*63.85*156	
Dim. (w/ Lugs/Conn.)	(L*W*H) mm	156.75*83.85*156	
Weight	kg	3.4	
Application Fields	GC Hydrogen (Fuel & Carrier); ELCD/AED Reaction Gas; Hydrogen Water Generators; Hydrogen Inhalers.		

Household Grade · Small Scale | 0.06-0.5 Nm³/h

PEM Water Electrolyzer | 2000 mL/min

Tailored solutions available for specialized applications.





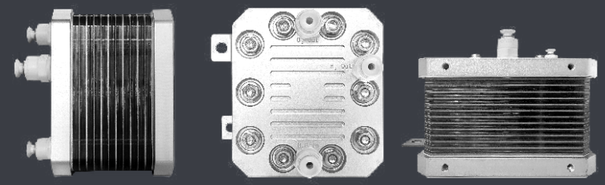
- Independently developed and manufactured
- High pressure tolerance enables high-purity hydrogen production
- Premium materials, precision engineering, extended lifespan.
- High current density with stable voltage operation

Product Model		CHL5-1 type PEME	
Gas Production Rate	mL/min	3000	H_2/O_2 Mix Out
Hydrogen Production Rate	mL/min	2000	Pure Hydrogen Output
Circulating Water Temperature	°C	25-50	
Water Consumption	mL/min	≮550	Pure Water / Deionized Water
Circulating Water Conductivity	μS/cm	≯1	Compliant with ISO 3696:1987 Grade 1 Standard
Circulation Method	/	Water Pump Circulation	
Hydrogen Purity	%	99.99	After Drying
Water Electrolysis Method	/	Water Electrolysis	Aproton Exchange Membrane (PEM) Electrolysis
Maximum Withstanding Pressure	MPa	0.5	
Single Cell Voltage	V	1.75-2.5	
Power Supply – Constant Current	A	55	
Power Supply – Constant Voltage	V	15	
Dim. (w/o Lugs/Conn.)	(L*W*H) mm	136*53*156	
Dim. (w/ Lugs/Conn.)	(L*W*H) mm	157*68*156	
Weight	kg	3	
Application Fields	GC Hydrogen (Fuel & Carrier); ELCD/AED Reaction Gas; Hydrogen Water Generators; Hydrogen Inhalers.		

Household Grade · Small Scale | 0.06-0.5 Nm³/h

PEM Water Electrolyzer | 2000 mL/min

Tailored solutions available for specialized applications.





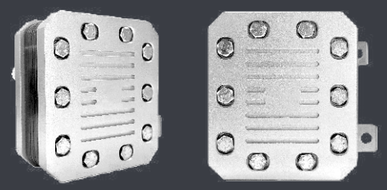
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- High current density with stable voltage operation

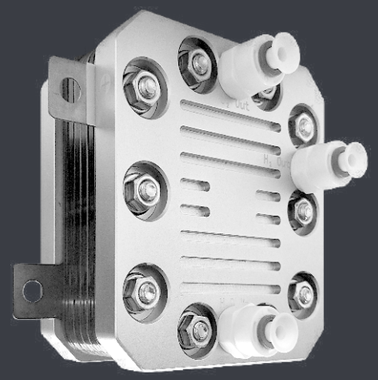
Product Model		CH11-1 type PEME	
Gas Production Rate	mL/min	3000	H_2/O_2 Mix Out
Hydrogen Production Rate	mL/min	2000	Pure Hydrogen Output
Circulating Water Temperature	°C	25-50	
Water Consumption	mL/min	≮350	Pure Water / Deionized Water
Circulating Water Conductivity	μS/cm	≯1	Compliant with ISO 3696:1987 Grade 1 Standard
Circulation Method	/	Water Pump Circulation	
Hydrogen Purity	%	99.99	After Drying
Water Electrolysis Method	/	Water Electrolysis	Aproton Exchange Membrane (PEM) Electrolysis
Maximum Withstanding Pressure	MPa	0.5~3.5	
Single Cell Voltage	V	1.75-2.5	
Power Supply – Constant Current	A	25	
Power Supply – Constant Voltage	V	33	
Dim. (w/o Lugs/Conn.)	(L*W*H) mm	94*75*106	
Dim. (w/ Lugs/Conn.)	(L*W*H) mm	109*92*106	
Weight	kg	1.75	
Application Fields	GC Hydrogen (Fuel & Carrier); ELCD/AED Reaction Gas; Hydrogen Water Generators; Hydrogen Inhalers.		

Household Grade · Small Scale | 0.06-0.5 Nm³/h

PEM Water Electrolyzer | 1200 mL/min

Tailored solutions available for specialized applications.





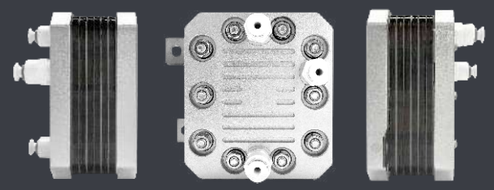
- Independently developed and manufactured
- High pressure tolerance enables high-purity hydrogen production
- Premium materials, precision engineering, extended lifespan.
- High current density with stable voltage operation

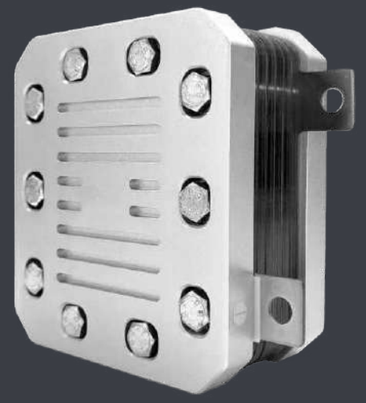
Product Model		CH7-1 type PEME	
Gas Production Rate	mL/min	1800	H_2/O_2 Mix Out
Hydrogen Production Rate	mL/min	1200	Pure Hydrogen Output
Circulating Water Temperature	°C	25-45	
Water Consumption	mL/min	≮350	Pure Water / Deionized Water
Circulating Water Conductivity	μS/cm	≯1	Compliant with ISO 3696:1987 Grade 1 Standard
Circulation Method	/	Water Pump Circulation	
Hydrogen Purity	%	99.99	After Drying
Water Electrolysis Method	/	Water Electrolysis	Aproton Exchange Membrane (PEM) Electrolysis
Maximum Withstanding Pressure	MPa	0.5~3.5	
Single Cell Voltage	V	1.75-2.5	
Power Supply – Constant Current	A	25	
Power Supply – Constant Voltage	V	21	
Dim. (w/o Lugs/Conn.)	(L*W*H) mm	94*58*106	
Dim. (w/ Lugs/Conn.)	(L*W*H) mm	109*73*106	
Weight	kg	1.33	
Application Fields	GC Hydrogen (Fuel & Carrier); ELCD/AED Reaction Gas; Hydrogen Water Generators; Hydrogen Inhalers.		

Household Grade · Small Scale | 0.06-0.5 Nm³/h

PEM Water Electrolyzer | 1000 mL/min

Tailored solutions available for specialized applications.





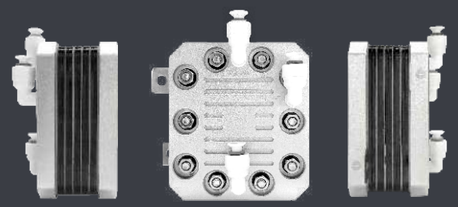
- Independently developed and manufactured
- High pressure tolerance enables high-purity hydrogen production
- Premium materials, precision engineering, extended lifespan.
- High current density with stable voltage operation

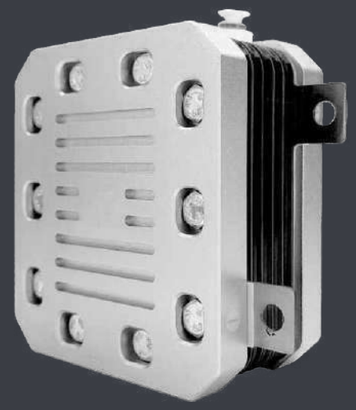
Product Model		CH6-1 type PEME	
Gas Production Rate	mL/min	1500	H_2/O_2 Mix Out
Hydrogen Production Rate	mL/min	1000	Pure Hydrogen Output
Circulating Water Temperature	°C	25-45	
Water Consumption	mL/min	≮200	Pure Water / Deionized Water
Circulating Water Conductivity	μS/cm	≯1	Compliant with ISO 3696:1987 Grade 1 Standard
Circulation Method	/	Water Pump Circulation	
Hydrogen Purity	%	99.99	After Drying
Water Electrolysis Method	/	Water Electrolysis	Aproton Exchange Membrane (PEM) Electrolysis
Maximum Withstanding Pressure	MPa	0.5~3.5	
Single Cell Voltage	V	1.75-2.5	
Power Supply – Constant Current	A	25	
Power Supply – Constant Voltage	V	18	
Dim. (w/o Lugs/Conn.)	(L*W*H) mm	94*52*106	
Dim. (w/ Lugs/Conn.)	(L*W*H) mm	109*68*106	
Weight	kg	1.3	
Application Fields	GC Hydrogen (Fuel & Carrier); ELCD/AED Reaction Gas; Hydrogen Water Generators; Hydrogen Inhalers.		

Household Grade · Small Scale | 0.06-0.5 Nm³/h

PEM Water Electrolyzer | 800 mL/min

Tailored solutions available for specialized applications.





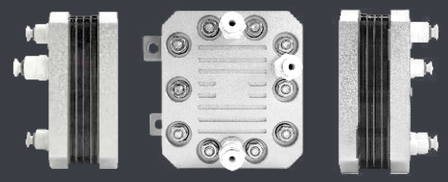
- Independently developed and manufactured
- High pressure tolerance enables high-purity hydrogen production
- Premium materials, precision engineering, extended lifespan.
- High current density with stable voltage operation

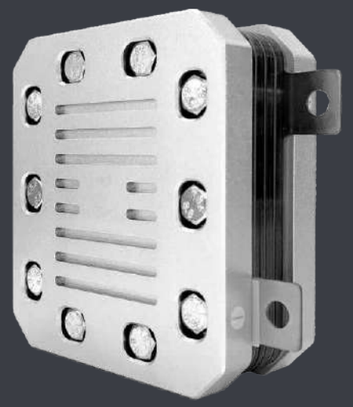
Product Model		CH5-1 type PEME	
Gas Production Rate	mL/min	1200	H_2/O_2 Mix Out
Hydrogen Production Rate	mL/min	800	Pure Hydrogen Output
Circulating Water Temperature	°C	25-45	
Water Consumption	mL/min	⩽200	Pure Water / Deionized Water
Circulating Water Conductivity	μS/cm	⩾1	Compliant with ISO 3696:1987 Grade 1 Standard
Circulation Method	/	Water Pump Circulation	
Hydrogen Purity	%	99.99	After Drying
Water Electrolysis Method	/	Water Electrolysis	Aproton Exchange Membrane (PEM) Electrolysis
Maximum Withstanding Pressure	MPa	0.5~3.5	
Single Cell Voltage	V	1.75-2.5	
Power Supply – Constant Current	A	25	
Power Supply – Constant Voltage	V	15	
Dim. (w/o Lugs/Conn.)	(L*W*H) mm	94*48*106	
Dim. (w/ Lugs/Conn.)	(L*W*H) mm	109*64*106	
Weight	kg	1.2	
Application Fields	GC Hydrogen (Fuel & Carrier); ELCD/AED Reaction Gas; Hydrogen Water Generators; Hydrogen Inhalers.		

Household Grade · Small Scale | 0.06-0.5 Nm³/h

PEM Water Electrolyzer | 600 mL/min

Tailored solutions available for specialized applications.





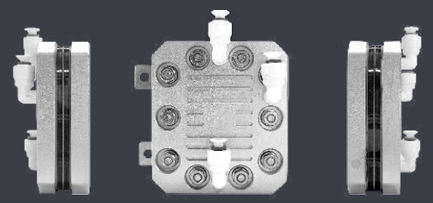
- Independently developed and manufactured
- High pressure tolerance enables high-purity hydrogen production
- Premium materials, precision engineering, extended lifespan.
- High current density with stable voltage operation

Product Model		CH4-1 type PEME	
Gas Production Rate	mL/min	900	H_2/O_2 Mix Out
Hydrogen Production Rate	mL/min	600	Pure Hydrogen Output
Circulating Water Temperature	°C	25-45	
Water Consumption	mL/min	⩽150	Pure Water / Deionized Water
Circulating Water Conductivity	μS/cm	⩾1	Compliant with ISO 3696:1987 Grade 1 Standard
Circulation Method	/	Gravity Circulation / Water Pump Circulation	
Hydrogen Purity	%	99.99	After Drying
Water Electrolysis Method	/	Water Electrolysis	Aproton Exchange Membrane (PEM) Electrolysis
Maximum Withstanding Pressure	MPa	0.5~3.5	
Single Cell Voltage	V	1.75-2.5	
Power Supply – Constant Current	A	20	
Power Supply – Constant Voltage	V	12	
Dim. (w/o Lugs/Conn.)	(L*W*H) mm	94*43*106	
Dim. (w/ Lugs/Conn.)	(L*W*H) mm	109*62*106	
Weight	kg	1.1	
Application Fields	GC Hydrogen (Fuel & Carrier); ELCD/AED Reaction Gas; Hydrogen Water Generators; Hydrogen Inhalers.		

Household Grade · Small Scale | 0.06-0.5 Nm³/h

PEM Water Electrolyzer | 300 mL/min

Tailored solutions available for specialized applications.





- Independently developed and manufactured
- High pressure tolerance enables high-purity hydrogen production
- Premium materials, precision engineering, extended lifespan.
- High current density with stable voltage operation

Product Model		CH2-1 type PEME	
Gas Production Rate	mL/min	450	H_2/O_2 Mix Out
Hydrogen Production Rate	mL/min	300	Pure Hydrogen Output
Circulating Water Temperature	°C	25-45	
Water Consumption	mL/min	≮80	Pure Water / Deionized Water
Circulating Water Conductivity	μS/cm	≯1	Compliant with ISO 3696:1987 Grade 1 Standard
Circulation Method	/	Gravity Circulation / Water Pump Circulation	
Hydrogen Purity	%	99.99	After Drying
Water Electrolysis Method	/	Water Electrolysis	Aproton Exchange Membrane (PEM) Electrolysis
Maximum Withstanding Pressure	MPa	0.5~3.5	
Single Cell Voltage	V	1.75-2.5	
Power Supply – Constant Current	A	20	
Power Supply – Constant Voltage	V	7	
Dim. (w/o Lugs/Conn.)	(L*W*H) mm	94*34*106	
Dim. (w/ Lugs/Conn.)	(L*W*H) mm	109*53*106	
Weight	kg	0.91	
Application Fields	GC Hydrogen (Fuel & Carrier); ELCD/AED Reaction Gas; Hydrogen Water Generators; Hydrogen Inhalers.		

Household Grade · Small Scale | 0.06-0.5 Nm³/h

PEM Water Electrolyzer | 150 mL/min

Tailored solutions available for specialized applications.





- Independently developed and manufactured
- High pressure tolerance enables high-purity hydrogen production
- Premium materials, precision engineering, extended lifespan.
- High current density with stable voltage operation

Product Model		CH1-1 type PEME	
Gas Production Rate	mL/min	225	H_2/O_2 Mix Out
Hydrogen Production Rate	mL/min	150	Pure Hydrogen Output
Circulating Water Temperature	°C	25-45	
Water Consumption	mL/min	≮80	Pure Water / Deionized Water
Circulating Water Conductivity	μS/cm	≯1	Compliant with ISO 3696:1987 Grade 1 Standard
Circulation Method	/	Gravity Circulation / Water Pump Circulation	
Hydrogen Purity	%	99.99	After Drying
Water Electrolysis Method	/	Water Electrolysis	Aproton Exchange Membrane (PEM) Electrolysis
Maximum Withstanding Pressure	MPa	0.5~3.5	
Single Cell Voltage	V	1.75-2.5	
Power Supply – Constant Current	A	22	
Power Supply – Constant Voltage	V	3.5	
Dim. (w/o Lugs/Conn.)	(L*W*H) mm	94*30*106	
Dim. (w/ Lugs/Conn.)	(L*W*H) mm	109*46*106	
Weight	kg	0.81	
Application Fields	GC Hydrogen (Fuel & Carrier); ELCD/AED Reaction Gas; Hydrogen Water Generators; Hydrogen Inhalers.		

Household Grade · Small Scale | 0.06-0.5 Nm³/h

PEM Water Electrolyzer | 600 mL/min

Tailored solutions available for specialized applications.





- Independently developed and manufactured
- High pressure tolerance enables high-purity hydrogen production
- Premium materials, precision engineering, extended lifespan.
- High current density with stable voltage operation

Product Model		CH04D-1 type PEME	
Gas Production Rate	mL/min	900	H_2/O_2 Mix Out
Hydrogen Production Rate	mL/min	600	Pure Hydrogen Output
Circulating Water Temperature	°C	25-45	
Water Consumption	mL/min	≤60	Pure Water / Deionized Water
Circulating Water Conductivity	μS/cm	≥1	Compliant with ISO 3696:1987 Grade 1 Standard
Circulation Method	/	Gravity Circulation / Water Pump Circulation	
Hydrogen Purity	%	99.99	After Drying
Water Electrolysis Method	/	Water Electrolysis	Aproton Exchange Membrane (PEM) Electrolysis
Maximum Withstanding Pressure	MPa	0.5	
Single Cell Voltage	V	1.75-2.5	
Power Supply – Constant Current	A	20	
Power Supply – Constant Voltage	V	12	
Dim. (w/o Lugs/Conn.)	(L*W*H) mm	68*40*78	
Dim. (w/ Lugs/Conn.)	(L*W*H) mm	79.75*60.5*78	
Weight	kg	0.5	
Application Fields	GC Hydrogen (Fuel & Carrier); ELCD/AED Reaction Gas; Hydrogen Water Generators; Hydrogen Inhalers.		

Household Grade · Small Scale | 0.06-0.5 Nm³/h

PEM Water Electrolyzer | 450 mL/min

Tailored solutions available for specialized applications.





- Independently developed and manufactured
- High pressure tolerance enables high-purity hydrogen production
- Premium materials, precision engineering, extended lifespan.
- High current density with stable voltage operation

Product Model		CH03D-1 type PEME	
Gas Production Rate	mL/min	675	H_2/O_2 Mix Out
Hydrogen Production Rate	mL/min	450	Pure Hydrogen Output
Circulating Water Temperature	°C	25-45	
Water Consumption	mL/min	≤60	Pure Water / Deionized Water
Circulating Water Conductivity	μS/cm	≥1	Compliant with ISO 3696:1987 Grade 1 Standard
Circulation Method	/	Gravity Circulation / Water Pump Circulation	
Hydrogen Purity	%	99.99	After Drying
Water Electrolysis Method	/	Water Electrolysis	Aproton Exchange Membrane (PEM) Electrolysis
Maximum Withstanding Pressure	MPa	0.5	
Single Cell Voltage	V	1.75-2.5	
Power Supply – Constant Current	A	20	
Power Supply – Constant Voltage	V	9	
Dim. (w/o Lugs/Conn.)	(L*W*H) mm	68*34.4*78	
Dim. (w/ Lugs/Conn.)	(L*W*H) mm	79.75*55.9*78	
Weight	kg	0.46	
Application Fields	GC Hydrogen (Fuel & Carrier); ELCD/AED Reaction Gas; Hydrogen Water Generators; Hydrogen Inhalers.		

Household Grade · Small Scale | 0.06-0.5 Nm³/h

PEM Water Electrolyzer | 300 mL/min

Tailored solutions available for specialized applications.





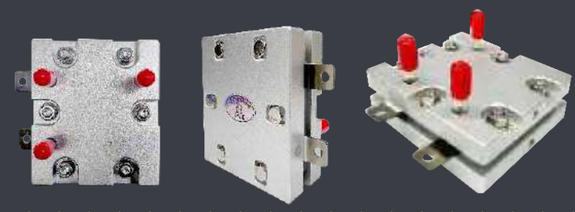
- Independently developed and manufactured
- High pressure tolerance enables high-purity hydrogen production
- Premium materials, precision engineering, extended lifespan.
- High current density with stable voltage operation

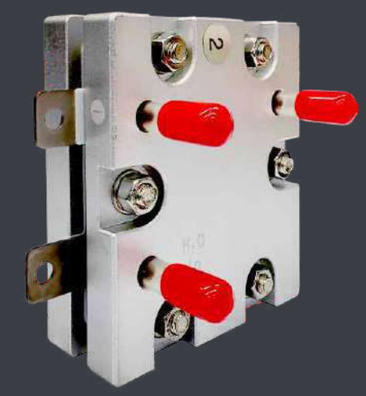
Product Model		CH02D-1 type PEME	
Gas Production Rate	mL/min	450	H_2/O_2 Mix Out
Hydrogen Production Rate	mL/min	300	Pure Hydrogen Output
Circulating Water Temperature	°C	25-45	
Water Consumption	mL/min	⩽60	Pure Water / Deionized Water
Circulating Water Conductivity	μS/cm	⩾1	Compliant with ISO 3696:1987 Grade 1 Standard
Circulation Method	/	Gravity Circulation / Water Pump Circulation	
Hydrogen Purity	%	99.99	After Drying
Water Electrolysis Method	/	Water Electrolysis	Aproton Exchange Membrane (PEM) Electrolysis
Maximum Withstanding Pressure	MPa	0.5	
Single Cell Voltage	V	1.75-2.5	
Power Supply – Constant Current	A	20	
Power Supply – Constant Voltage	V	7	
Dim. (w/o Lugs/Conn.)	(L*W*H) mm	68*30.8*78	
Dim. (w/ Lugs/Conn.)	(L*W*H) mm	79.75*51.3*78	
Weight	kg	0.45	
Application Fields	GC Hydrogen (Fuel & Carrier); ELCD/AED Reaction Gas; Hydrogen Water Generators; Hydrogen Inhalers.		

Household Grade · Small Scale | 0.06-0.5 Nm³/h

PEM Water Electrolyzer | 150 mL/min

Tailored solutions available for specialized applications.





- Independently developed and manufactured
- High pressure tolerance enables high-purity hydrogen production
- Premium materials, precision engineering, extended lifespan.
- High current density with stable voltage operation

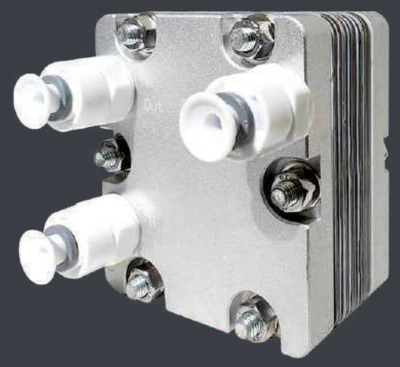
Product Model		CH01D-1 type PEME	
Gas Production Rate	mL/min	225	H_2/O_2 Mix Out
Hydrogen Production Rate	mL/min	150	Pure Hydrogen Output
Circulating Water Temperature	°C	25-45	
Water Consumption	mL/min	⩽60	Pure Water / Deionized Water
Circulating Water Conductivity	μS/cm	⩾1	Compliant with ISO 3696:1987 Grade 1 Standard
Circulation Method	/	Gravity Circulation / Water Pump Circulation	
Hydrogen Purity	%	99.99	After Drying
Water Electrolysis Method	/	Water Electrolysis	Aproton Exchange Membrane (PEM) Electrolysis
Maximum Withstanding Pressure	MPa	0.5	
Single Cell Voltage	V	1.75-2.5	
Power Supply – Constant Current	A	20	
Power Supply – Constant Voltage	V	3.5	
Dim. (w/o Lugs/Conn.)	(L*W*H) mm	68*26.2*78	
Dim. (w/ Lugs/Conn.)	(L*W*H) mm	79.75*46.7*78	
Weight	kg	0.4	
Application Fields	GC Hydrogen (Fuel & Carrier); ELCD/AED Reaction Gas; Hydrogen Water Generators; Hydrogen Inhalers.		

Household Grade · Small Scale | 0.06-0.5 Nm³/h

PEM Water Electrolyzer | 400 mL/min

Tailored solutions available for specialized applications.





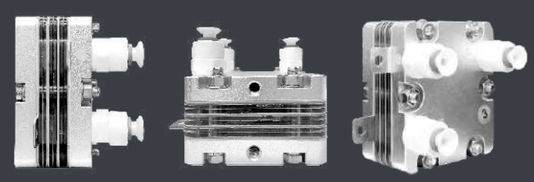
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- High pressure tolerance enables high-purity hydrogen production
- Premium materials, precision engineering, extended lifespan.
- High current density with stable voltage operation

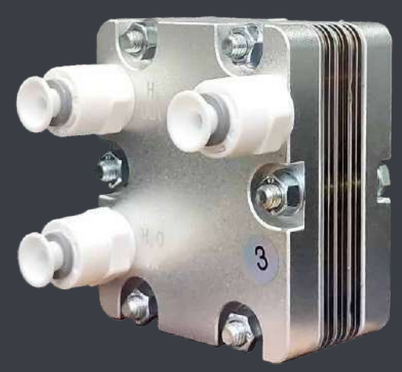
Product Model		CH04-1 type PEME	
Gas Production Rate	mL/min	600	H_2/O_2 Mix Out
Hydrogen Production Rate	mL/min	400	Pure Hydrogen Output
Circulating Water Temperature	°C	25-45	
Water Consumption	mL/min	≤100	Pure Water / Deionized Water
Circulating Water Conductivity	μS/cm	≥1	Compliant with ISO 3696:1987 Grade 1 Standard
Circulation Method	/	Gravity Circulation / Water Pump Circulation	
Hydrogen Purity	%	99.99	After Drying
Water Electrolysis Method	/	Water Electrolysis	Aproton Exchange Membrane (PEM) Electrolysis
Maximum Withstanding Pressure	MPa	0.5	
Single Cell Voltage	V	1.75-2.5	
Power Supply – Constant Current	A	15	
Power Supply – Constant Voltage	V	12	
Dim. (w/o Lugs/Conn.)	(L*W*H) mm	60*40*72	
Dim. (w/ Lugs/Conn.)	(L*W*H) mm	71.75*57.7*72	
Weight	kg	0.5	
Application Fields	GC Hydrogen (Fuel & Carrier); ELCD/AED Reaction Gas; Hydrogen Water Generators; Hydrogen Inhalers.		

Household Grade · Small Scale | 0.06-0.5 Nm³/h

PEM Water Electrolyzer | 300 mL/min

Tailored solutions available for specialized applications.





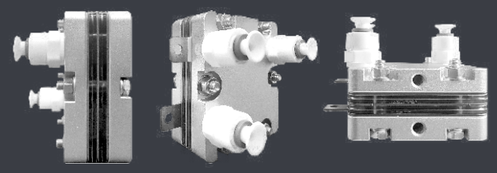
- Independently developed and manufactured
- High pressure tolerance enables high-purity hydrogen production
- Premium materials, precision engineering, extended lifespan.
- High current density with stable voltage operation

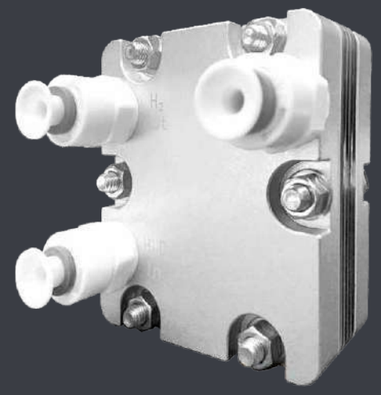
Product Model		CH03-1 type PEME	
Gas Production Rate	mL/min	450	H_2/O_2 Mix Out
Hydrogen Production Rate	mL/min	300	Pure Hydrogen Output
Circulating Water Temperature	°C	25-45	
Water Consumption	mL/min	≤80	Pure Water / Deionized Water
Circulating Water Conductivity	μS/cm	≥1	Compliant with ISO 3696:1987 Grade 1 Standard
Circulation Method	/	Gravity Circulation / Water Pump Circulation	
Hydrogen Purity	%	99.99	After Drying
Water Electrolysis Method	/	Water Electrolysis	Aproton Exchange Membrane (PEM) Electrolysis
Maximum Withstanding Pressure	MPa	0.5	
Single Cell Voltage	V	1.75-2.5	
Power Supply – Constant Current	A	15	
Power Supply – Constant Voltage	V	9	
Dim. (w/o Lugs/Conn.)	(L*W*H) mm	60*35.4*72	
Dim. (w/ Lugs/Conn.)	(L*W*H) mm	71.75*53.1*72	
Weight	kg	0.45	
Application Fields	GC Hydrogen (Fuel & Carrier); ELCD/AED Reaction Gas; Hydrogen Water Generators; Hydrogen Inhalers.		

Household Grade · Small Scale | 0.06-0.5 Nm³/h

PEM Water Electrolyzer | 200 mL/min

Tailored solutions available for specialized applications.





- Independently developed and manufactured
- High pressure tolerance enables high-purity hydrogen production
- Premium materials, precision engineering, extended lifespan.
- High current density with stable voltage operation

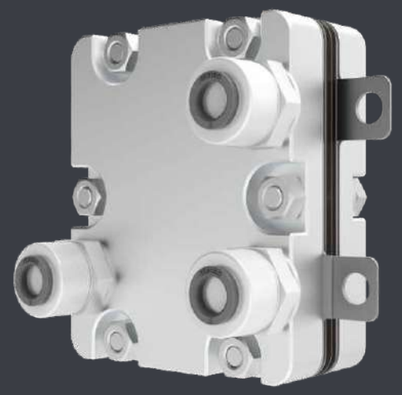
Product Model		CH02-1 type PEME	
Gas Production Rate	mL/min	300	H_2/O_2 Mix Out
Hydrogen Production Rate	mL/min	200	Pure Hydrogen Output
Circulating Water Temperature	°C	25-45	
Water Consumption	mL/min	⩽60	Pure Water / Deionized Water
Circulating Water Conductivity	μS/cm	⩾1	Compliant with ISO 3696:1987 Grade 1 Standard
Circulation Method	/	Gravity Circulation / Water Pump Circulation	
Hydrogen Purity	%	99.99	After Drying
Water Electrolysis Method	/	Water Electrolysis	Aproton Exchange Membrane (PEM) Electrolysis
Maximum Withstanding Pressure	MPa	0.5	
Single Cell Voltage	V	1.75-2.5	
Power Supply – Constant Current	A	15	
Power Supply – Constant Voltage	V	7	
Dim. (w/o Lugs/Conn.)	(L*W*H) mm	60*30.8*72	
Dim. (w/ Lugs/Conn.)	(L*W*H) mm	71.75*48.5*72	
Weight	kg	0.4	
Application Fields	GC Hydrogen (Fuel & Carrier); ELCD/AED Reaction Gas; Hydrogen Water Generators; Hydrogen Inhalers.		

Household Grade · Small Scale | 0.06-0.5 Nm³/h

PEM Water Electrolyzer | 100 mL/min

Tailored solutions available for specialized applications.





- Independently developed and manufactured
- High pressure tolerance enables high-purity hydrogen production
- Premium materials, precision engineering, extended lifespan.
- High current density with stable voltage operation

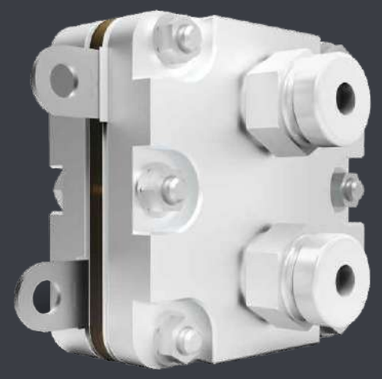
Product Model		CH01-1 type PEME	
Gas Production Rate	mL/min	150	H_2/O_2 Mix Out
Hydrogen Production Rate	mL/min	100	Pure Hydrogen Output
Circulating Water Temperature	°C	25-45	
Water Consumption	mL/min	⩽60	Pure Water / Deionized Water
Circulating Water Conductivity	μS/cm	⩾1	Compliant with ISO 3696:1987 Grade 1 Standard
Circulation Method	/	Gravity Circulation / Water Pump Circulation	
Hydrogen Purity	%	99.99	After Drying
Water Electrolysis Method	/	Water Electrolysis	Aproton Exchange Membrane (PEM) Electrolysis
Maximum Withstanding Pressure	MPa	0.5	
Single Cell Voltage	V	1.75-2.5	
Power Supply – Constant Current	A	15	
Power Supply – Constant Voltage	V	3.5	
Dim. (w/o Lugs/Conn.)	(L*W*H) mm	60*26.2*72	
Dim. (w/ Lugs/Conn.)	(L*W*H) mm	71.75*43.9*72	
Weight	kg	0.3	
Application Fields	GC Hydrogen (Fuel & Carrier); ELCD/AED Reaction Gas; Hydrogen Water Generators; Hydrogen Inhalers.		

Household Grade · Small Scale | 0.06-0.5 Nm³/h

PEM Water Electrolyzer | 60 mL/min

Tailored solutions available for specialized applications.





- Independently developed and manufactured
- High pressure tolerance enables high-purity hydrogen production
- Premium materials, precision engineering, extended lifespan.
- High current density with stable voltage operation

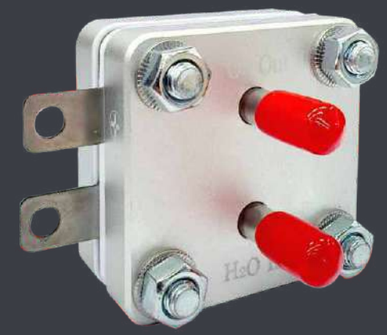
Product Model		CH60-1 type PEME	
Gas Production Rate	mL/min	90	H_2/O_2 Mix Out
Hydrogen Production Rate	mL/min	60	Pure Hydrogen Output
Circulating Water Temperature	°C	25-45	
Water Consumption	mL/min	⩽60	Pure Water / Deionized Water
Circulating Water Conductivity	μS/cm	⩾1	Compliant with ISO 3696:1987 Grade 1 Standard
Circulation Method	/	Gravity Circulation / Water Pump Circulation	
Hydrogen Purity	%	99.99	After Drying
Water Electrolysis Method	/	Water Electrolysis	Aproton Exchange Membrane (PEM) Electrolysis
Maximum Withstanding Pressure	MPa	0.5	
Single Cell Voltage	V	1.75-2.5	
Power Supply – Constant Current	A	8	
Power Supply – Constant Voltage	V	3.5	
Dim. (w/o Lugs/Conn.)	(L*W*H) mm	50*38.8*60	
Dim. (w/ Lugs/Conn.)	(L*W*H) mm	65*57.5*60	
Weight	kg	0.3	
Application Fields	GC Hydrogen (Fuel & Carrier); ELCD/AED Reaction Gas; Hydrogen Water Generators; Hydrogen Inhalers.		

Household Grade · Small Scale | 0.06-0.5 Nm³/h

PEM Water Electrolyzer | 40 mL/min

Tailored solutions available for specialized applications.





- Independently developed and manufactured
- High pressure tolerance enables high-purity hydrogen production
- Premium materials, precision engineering, extended lifespan.
- High current density with stable voltage operation

Product Model		CH40-1 type PEME	
Gas Production Rate	mL/min	60	H_2/O_2 Mix Out
Hydrogen Production Rate	mL/min	40	Pure Hydrogen Output
Circulating Water Temperature	°C	25-45	
Water Consumption	mL/min	⩽60	Pure Water / Deionized Water
Circulating Water Conductivity	μS/cm	⩾1	Compliant with ISO 3696:1987 Grade 1 Standard
Circulation Method	/	Gravity Circulation / Water Pump Circulation	
Hydrogen Purity	%	99.99	After Drying
Water Electrolysis Method	/	Water Electrolysis	Aproton Exchange Membrane (PEM) Electrolysis
Maximum Withstanding Pressure	MPa	0.5	
Single Cell Voltage	V	1.75-2.5	
Power Supply – Constant Current	A	5.3	
Power Supply – Constant Voltage	V	3.5	
Dim. (w/o Lugs/Conn.)	(L*W*H) mm	50*26.7*50	
Dim. (w/ Lugs/Conn.)	(L*W*H) mm	64*66.7*50	
Weight	kg	0.21	
Application Fields	GC Hydrogen (Fuel & Carrier); ELCD/AED Reaction Gas; Hydrogen Water Generators; Hydrogen Inhalers.		

APPLICATION CASES

Photos of partially delivered equipment on site





SFA Aviation Fuel Research Project



Taiwan Semiconductor Hydrogen Supply Project



10 Nm³/h Hydrogen Generator Exported to the USA



Henan Diamond Manufacturing On-Site Hydrogen Supply Project



35MPa High-Pressure Hydrogen Production Project



Small-Scale PV Off-Grid Hydrogen Production Project



Ultra-High Purity Hydrogen (99.99999%) Application Project for Materials Laboratory



SOFC Fuel Cell Hydrogen Supply Project



PEM Hydrogen Production + Electrochemical Compression Project



Specialty Ceramics On-Site Hydrogen Production and Utilization Project



Ultra-High Purity Hydrogen Supply Project for MOCVD Equipment



7N-Grade Ultra-High Purity Hydrogen Application Project for Reactors



Research Project for Integrated Hydrogen Production and Storage Equipment (for a high-tech enterprise)



PEM Hydrogen Production Project for Fuel Cell Applications



5 Nm³/h CE-Certified Hydrogen Generator Exported to Italy



Hydrogen for Sintering Protection Project