

# LONGi ALK Series

Start the Era 1.0 of Electrolysis  
Energy Efficiency

## Alkaline Electrolyzer

Energy consumption down to **4.0** kWh/Nm<sup>3</sup>



### LONGi Brand Value

#### Leading Technology

In 2 years, 14 consecutive times broke the world record for photovoltaic cell conversion efficiency

#### Leading R&D

2.3 billion R&D investment in 10 years  
Top1 in the photovoltaic industry

#### Leading Value

2021 Intersolar Award  
The only module manufacturer winner

#### Reliable Product

Full life cycle management  
Customer-centered

#### Reliable finance

No.1 in BNEF Financial Health Index  
The only AAA rating for "Bankability" of modules by PV Tech

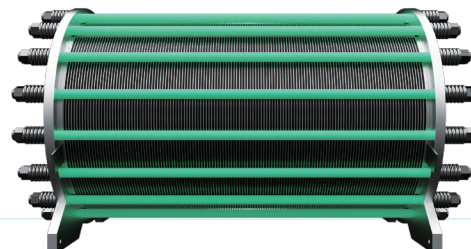
#### Sustainable Development

RE100, EP100, EV100  
SBTi, Green supply chain system management  
LONGi zero-carbon factory construction

**Era 1.0**

# LONGI ALK Hi1 Series

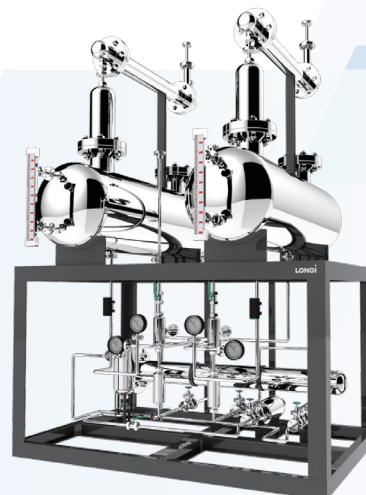
Hi1 Series Electrolyzer Data	Hi1 1000	Hi1 Plus 1000
Production Flow rate (Nm <sup>3</sup> /h)	1000	
Operating Pressure (MPa)	1.6	
DC power Consumption (kWh/Nm <sup>3</sup> )	≤4.3	≤4.1
Load Range	30%-110%	
Hydrogen Purity (after purification)	99.999%	
O <sub>2</sub> Content in H <sub>2</sub> (ppmv)	1	
Operating Temperature (°C)	90 ± 5	
Ambient Temperature (°C)	5-40	
Electrolyte	30% KOH	



## Hydrogen Production System

The industry's first 4000Nm<sup>3</sup>/h bundled system (4 electrolyzers with 1 gas-liquid separation skid), saving 20% footprint.  
Optional: Purification, Rectifier, other auxiliary systems.

<b>Better performance</b>	Improved DC power performance through overpotential and ohmic loss reduction by internal structure and material optimization.
<b>Higher reliability</b>	World leading automatic production line, ensure consistent and excellent performance.
<b>Remote controllable</b>	Automatic N <sub>2</sub> purging function, multiple protection interlocks for safe shutdown, redundant PLC design, independent safety instrumented system.
<b>Online monitoring</b>	Real-time process and utility parameters monitoring, ensure operation safety and data traceability.



## Reliably and Steadily Invigorate by Science & Technology

<b>Qualification</b> <ul style="list-style-type: none"> <li>+ ESA community responsibility</li> <li>+ System certification WCA</li> <li>+ ISO9001 / 14001 / 45001</li> <li>+ ASME certified factory</li> <li>+ Self-built reliability lab</li> </ul>	<b>Safety</b> <ul style="list-style-type: none"> <li>+ ATEX rates equipment</li> <li>+ Professional team dedicate to HAZPO analysis</li> <li>+ PLC control + Independent SIS</li> <li>+ Comply with CE-PED / ASME / IEC / AS / UL</li> </ul>	<b>Product</b> <ul style="list-style-type: none"> <li>+ Mature ALK technology</li> <li>+ 99.999% high purity hydrogen production</li> <li>+ 70+ patents to back the performance</li> </ul>	<b>System</b> <ul style="list-style-type: none"> <li>+ Fully automated production / welding line guarantee the consistency of system performance</li> <li>+ 100% remote controllable</li> <li>+ Online monitoring platform (available to client upon request)</li> </ul>
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Hotline / (+86) 4008 601012

Email / HydrogenMKT@longi.com

Add / No.8369 Shangyuan Road Xi'an Economic And Technological Development Zone, Xi'an, Shaanxi, China

www.longi.com/en/

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