



# The Leader of Clean and Smart Energy



CHG EnSOL Renewable Technology Co., Ltd.

+86 0551 6387 6010

22F, Block A, CHG Building, No. 1227, Fanhua Avenue,  
Hefei Economic and Technological Development Zone





# Central New Energy Holding Group

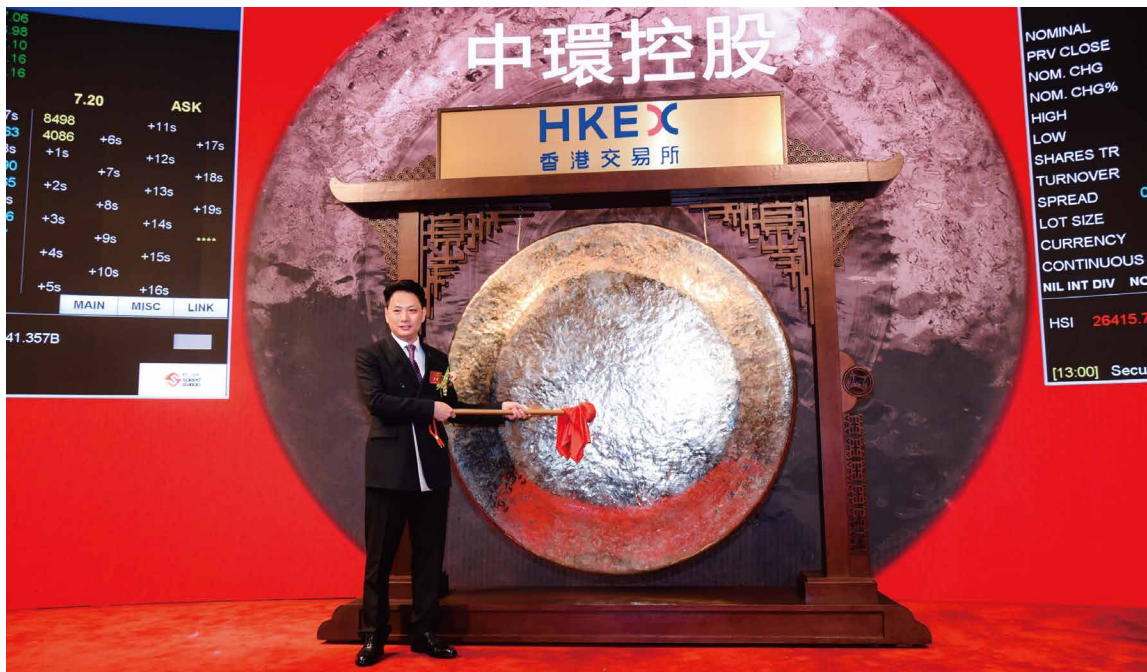
CHG New Energy Holdings Group Co.Ltd.is a comprehensive group company listed on the Main Board of the Hong Kong Stock Exchange Limited (stock code 01735.HK.) .The group's business covers low-carbon new energy, smart logistics, health agriculture, property management, etc. CHG Holdings has always upheld the principle of "responsibility comes from within"and aspires to become an excellent enterprise respected by society.Dedicated to green development, CHG Holdings supports China's low-carbon transition. In alignment with national policies and technological advancement trends, it actively responds to the call of the Party and government, striving to achieve the 'Dual Carbon' goals through transformative development. It is making strategic advances into the high-end manufacturing industry and is committed to the development of the national low-carbon new energy industry.Simultaneously, it is expanding into industries such as industrial internet,science and technology innovation investment,supply chain,and smart logistics.Through high-quality sustainable development, it aims to become an outstanding enterprise in the industry,and contribute to Chinese modernization. For a long time,CHG Holdings has been committed to exploring innovation in social management models and the development of Chinese public welfare undertakings, with initiatives including caring for industrial workers,providing sunshine assistance,assisting impoverished families, assisting urban culture, building harmonious communities, promoting education development,and promoting youth entrepreneurship and growth. To date, its charitable donation have totaled approximately 90 million yuan,reflecting its continuous contribution to promoting social harmony and China's public welfare undertakings.



# Listed Company Sector

## Honorary Listing

On December 3rd, 2019, Chairman Yu Zhuyun presided over the listing bell ceremony at the Hong Kong Stock Exchange Financial Conference Hall.



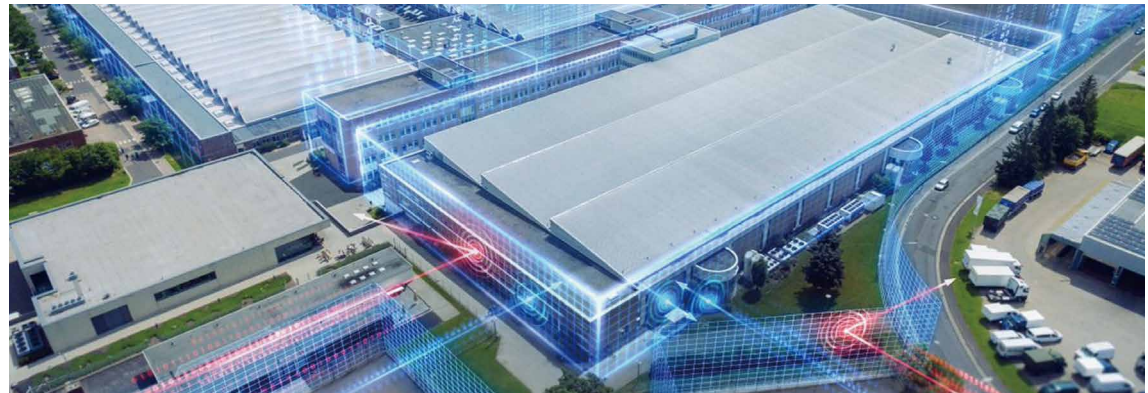
## Renewable Energy and EPC

CHG Holdings' business covers the innovative research and development, intelligent manufacturing, product sales, solar power station construction and low-carbon smart park development and operation of solar cells and components. It maintains full-cycle capabilities including processing and producing raw materials, manufacturing solar cells and components with its own brand based on its own scientific research strength (design, technology), and selling them to clients with demand to achieve profitability; investing in and building solar power station development and operation, and using solar cells or components produced by itself during construction. After completion, the solar power station will be sold to the asset holder to obtain a premium or retained for long-term income through the later operation of the solar power station.



## Smart Energy Management Service

By designing integrated primary-secondary energy systems according to user needs and using AI big data algorithms, different energy sources are effectively coupled to achieve maximum efficiency, enabling customers to achieve energy conservation and carbon reduction goals. Our operating model focuses on the construction transformation, design and operation of zero-carbon parks.



## Green building and construction related business

We undertake environmentally friendly and energy-saving construction engineering projects, providing pile engineering, excavation and lateral support engineering, pile cap engineering, building engineering. Additionally we develop and sell properties, hold properties for investment and leasing purposes, and supply green building materials.



## Health and Medical

In the response to the "Healthy China Strategy", we have expanded into the fields such as green food ingredients supply, health products, medical equipment, health checks, and wellness vacations; our customers are COFCO, Sinopharm, etc.





## Central Low Carbon New Energy (Anhui) Group Co., Ltd.

CHG EnSOL Renewable Technology Co., Ltd., is a wholly-owned subsidiary of Central New Energy Holding Group (Stock Code: 01735.HK), Aligned with China's "carbon peaking and carbon neutrality goals" and driven by its vision to become an excellent enterprise in the solar industry, its business encompasses innovative R&D, intelligent manufacturing, and sales of solar cells and modules, along with solar power plant construction and low-carbon smart industrial park development and operation. Committed to technological innovation, the company is strategically positioned as a specialized manufacturer and industry leader of next-generation solar cells while establishing itself as a green energy system integration provider. It simultaneously develops multiple technology solutions including solar-storage-charging integration, BC (back contact), hydrogen-ammonia-methanol production, perovskite technologies. Adhering to high-quality development as its primary mission, the company adapts to local conditions to cultivate cutting-edge production technologies, contributing to Chinese-style modernization.



## Globalization

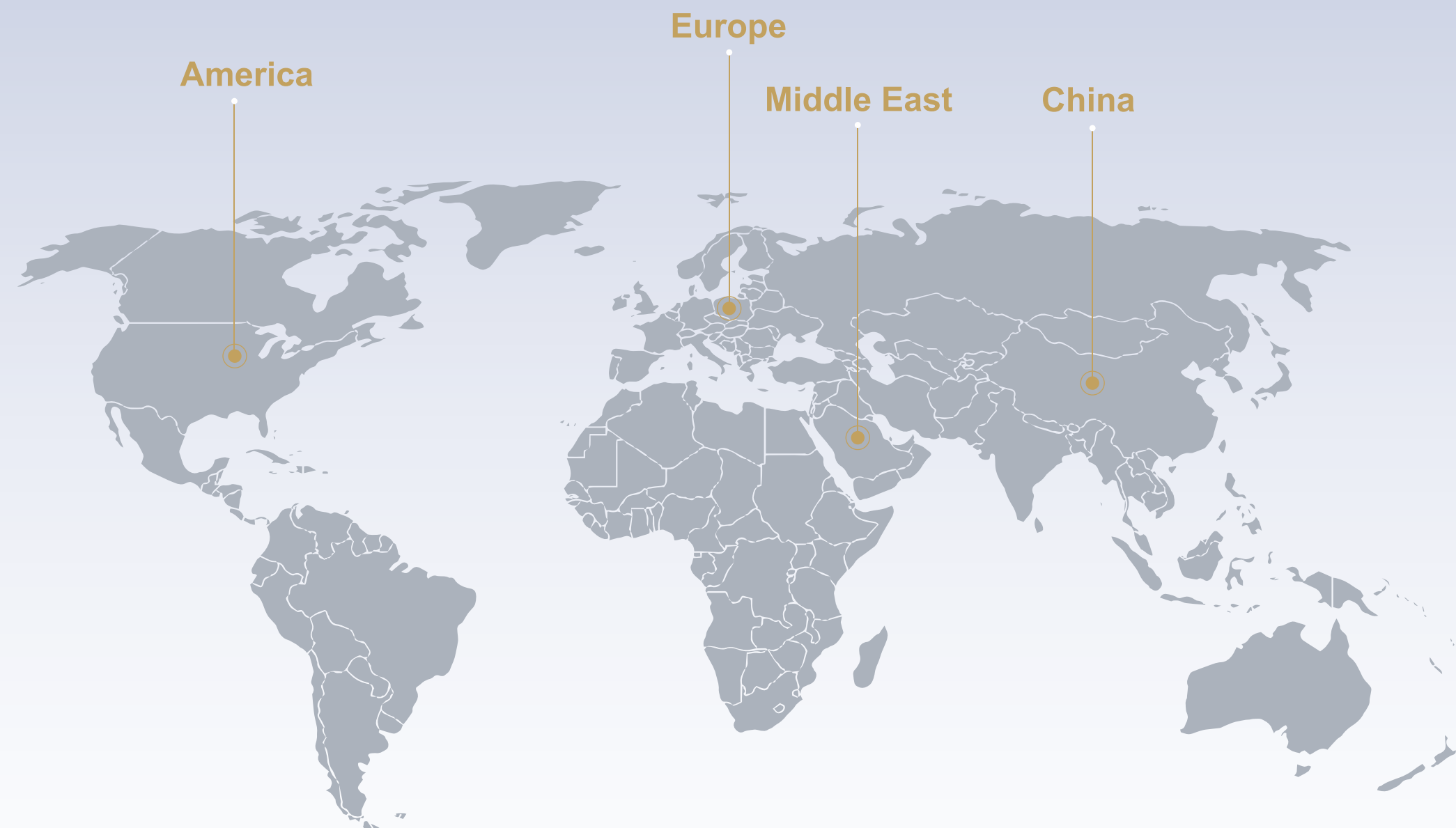
Driven by advanced technologies and strict quality control, we are committed to expanding into global markets. According to domestic policy conditions and market demand, we are vigorously developing advanced renewable energy industry clusters, meanwhile, we are exploring opportunities in the Middle East, Europe, America and other regions to expand our international business.

Huainan Fengtai Planning **24GW/6GW**

Anqing Tongcheng Planning **20GW**

Huainan Planning **12GW**

Ningxia tongxin Planning **12GW**



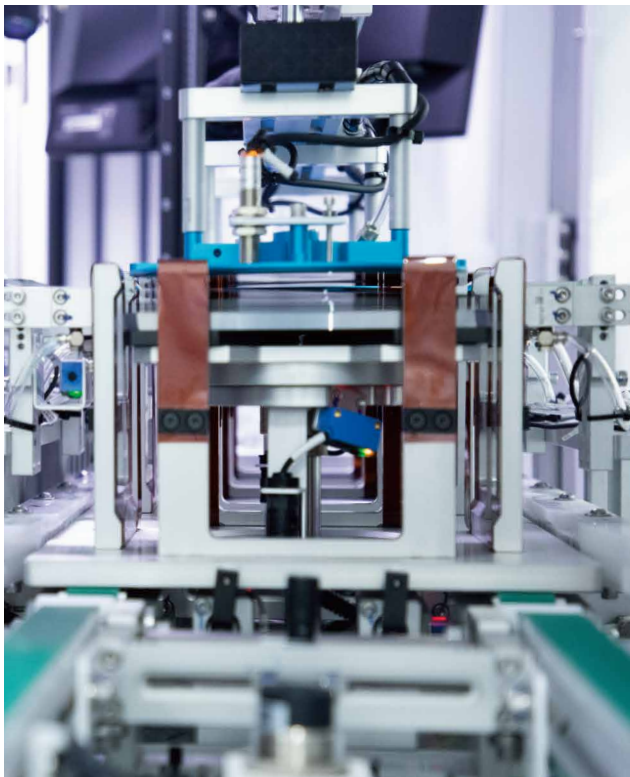
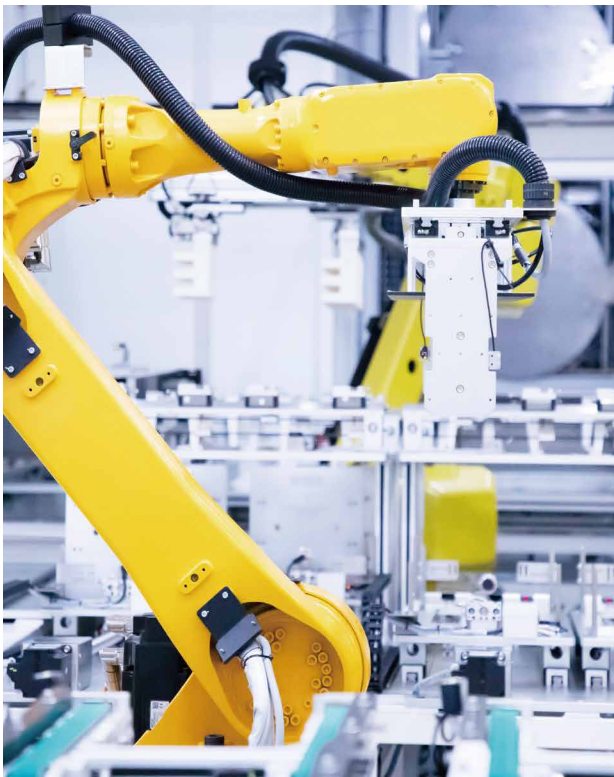


# Quality Leadership

## Smart Factory


- ISO CLASS 6 workshop
- World-leading automated intelligent workshop, equipped with fully automated production equipment, 5G fully intelligent AGV material and product transmission system
- Information collection system adopts fully digital information MES management


 Intelligent     Visualization     Informatization     Digitization








# CHG ENSOL "C-STAR" Series Products


- 

**High Efficiency**  
The battery has high conversion efficiency
- 

**High Bifaciality**  
Up to 85% bifacial gain
- 

**Better Temperature Coefficient**  
 $\leq -0.29\%/^{\circ}\text{C}$ , n-TOPCon battery modules generate more power in working condition than conventional modules
- 

**Low Degradation**  
First year degradation  $\leq 1\%$ ,  
Following year degradation  $\leq 0.4\%$
- 

**NO LeTID/LID**  
Prevent Light and elevated Temperature Induced Degradation(LeTID)and Light Induced Degradation(LID)
- 

**Better Low Light Response**  
Better power generation performance under low-light conditions such as morning, evening and cloudy conditions



**TC-NG12R16B**  
 $182.2\text{mm} \times 210\text{mm} \pm 0.5\text{mm}$   
 $\phi 272\text{mm} \pm 0.5\text{mm}$



**TC-NG12R18B**  
 $182.2\text{mm} \times 210\text{mm} \pm 0.5\text{mm}$   
 $\phi 272\text{mm} \pm 0.5\text{mm}$



**TC-NM10L16B**  
 $182.2\text{mm} \times 183.75\text{mm} \pm 0.5\text{mm}$   
 $\phi 256\text{mm} \pm 0.5\text{mm}$



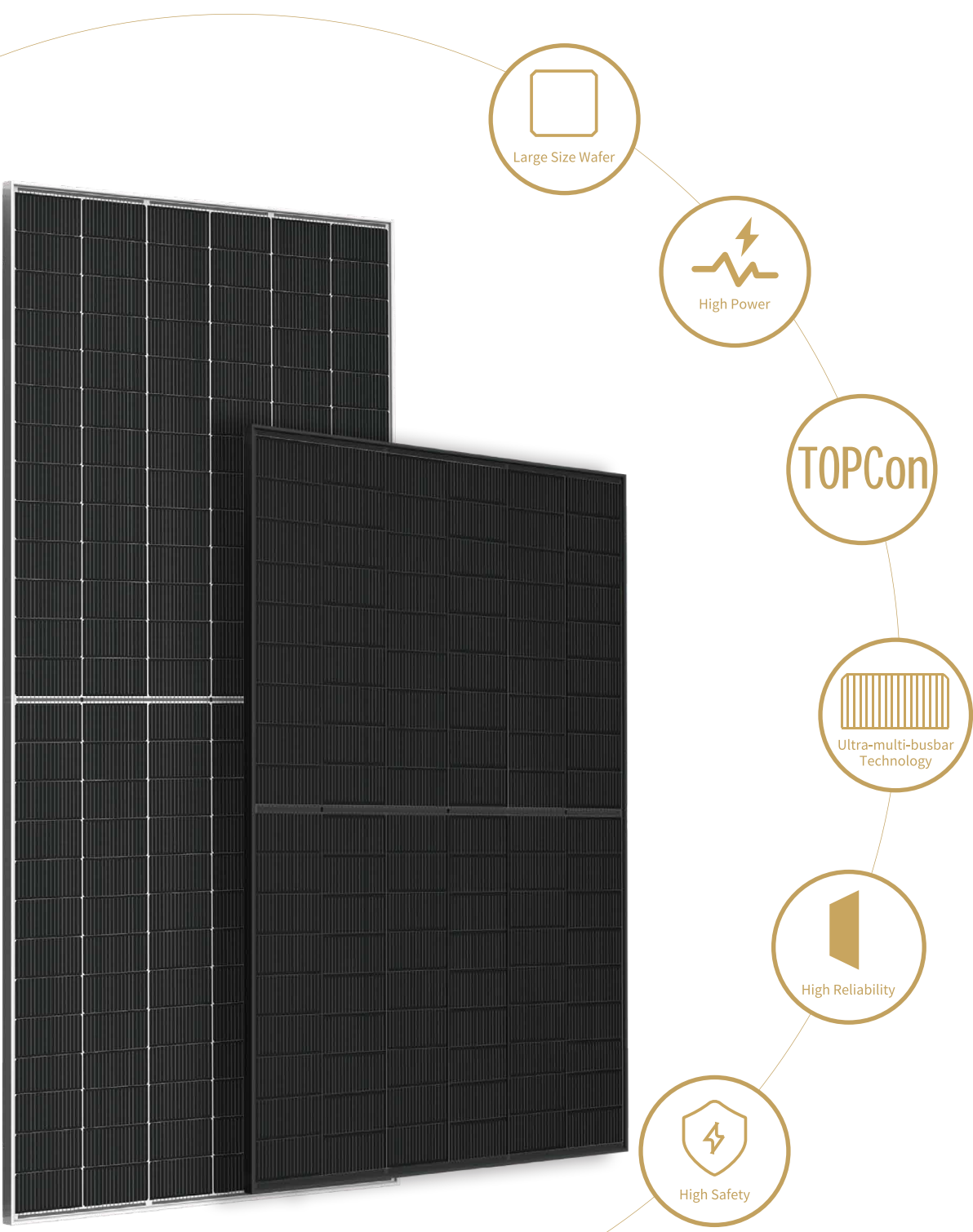
**BC-NM10L16B**  
 $182.2\text{mm} \times 183.75\text{mm} \pm 0.5\text{mm}$   
 $\phi 256\text{mm} \pm 0.5\text{mm}$



**TCHC-NG12R16B**  
 $182.2\text{mm} \times 105\text{mm} \pm 0.5\text{mm}$



# CHG ENSOL Module Products



## Excellent Power Output

Adopting large-sized, highly efficient cell technology and leading manufacturing processes to effectively enhance product power



## Excellent Temperature Coefficient

The product has excellent temperature coefficient, outstanding outdoor power generation performance and longer service life



## Ultra-multi-busbar Technology

Better light utilization and current collecting capability, effectively improve power output and reliability



## NO LeTID/LID

While achieving efficiency gains in N-type solar cells, virtually no LID loss



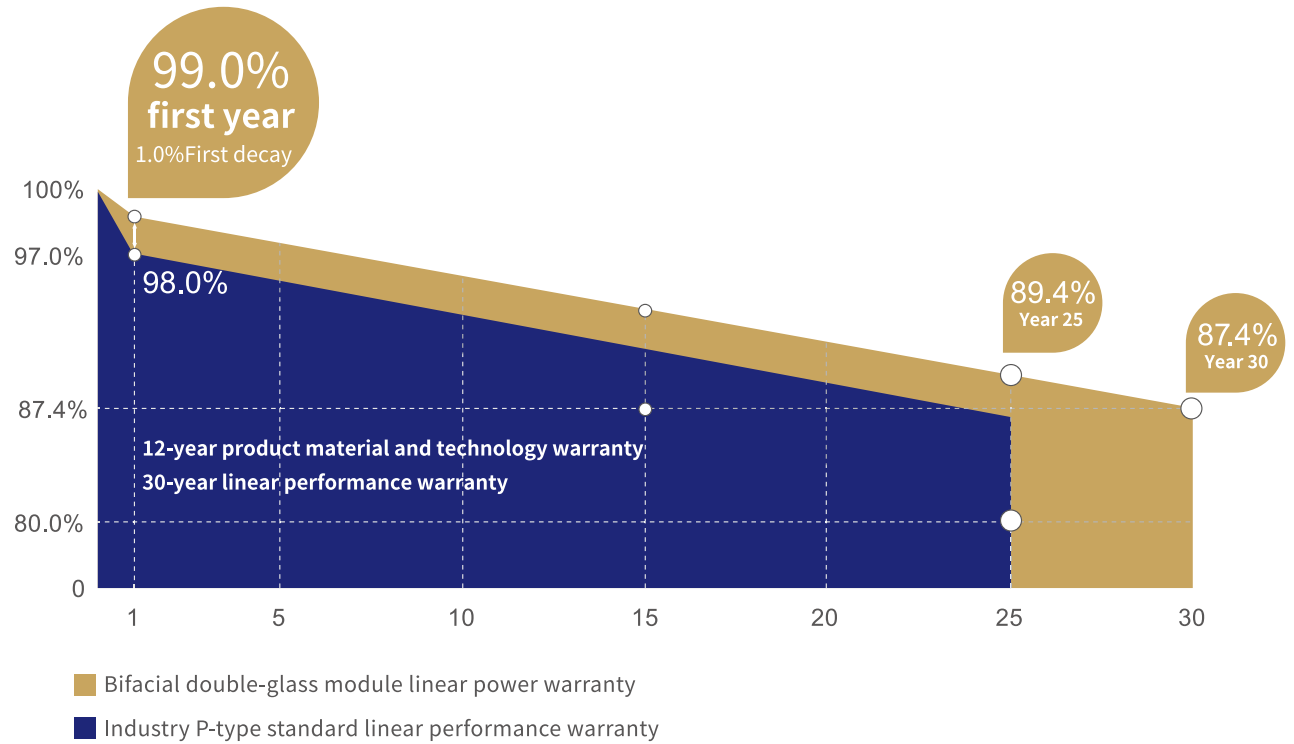
## Excellent Irradiance Response

Superior Low-light power generation performance in environments such as early morning, evening and cloudy conditions



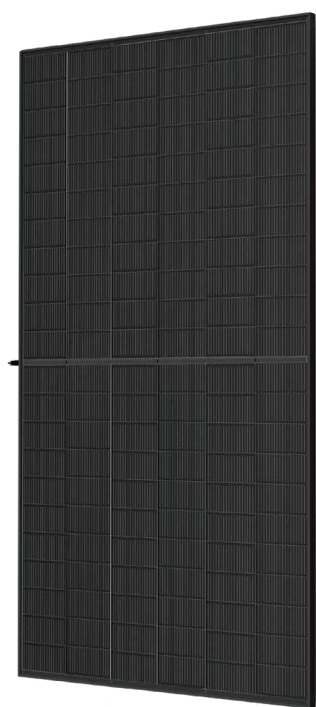
## High-yield

Effectively reduce system BOS costs, lower LCOE, and increase ROI





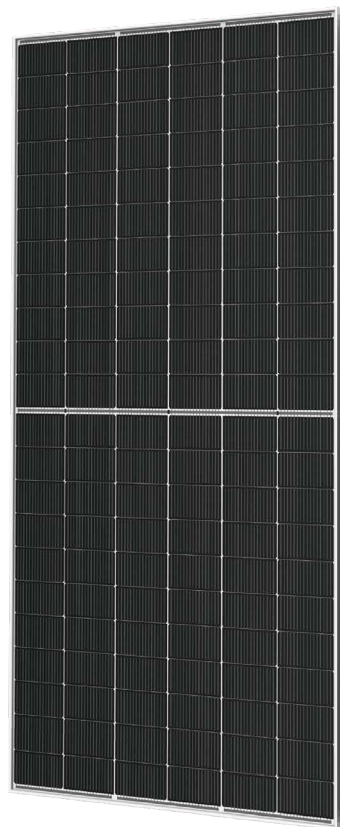
ENSOL Module Products



CHGMN48D2

1762×1134×30mm  
23.7kg

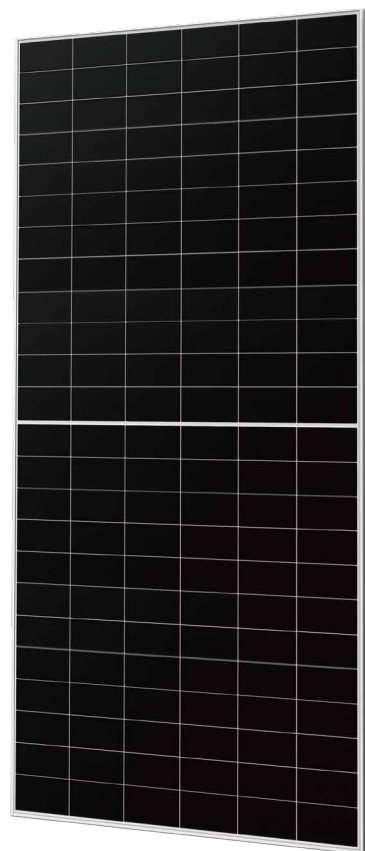
**468W**  
Maximum output power



CHGMN66D2

2382×1134×30mm  
32.8kg

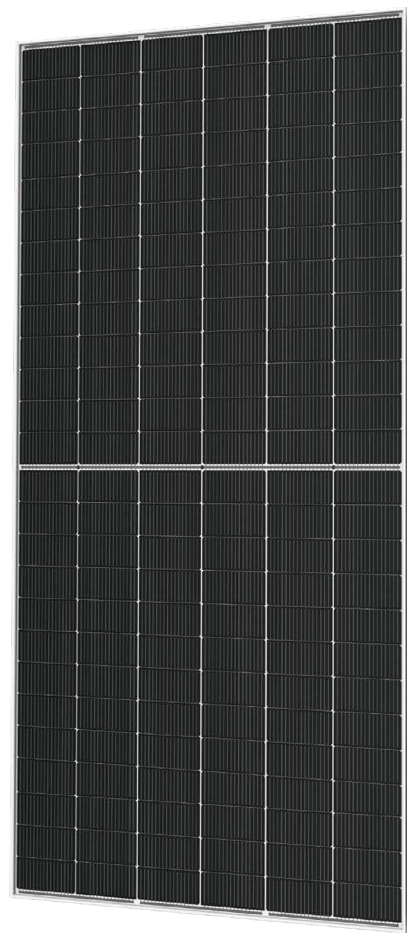
**655W**  
Maximum output power



CHGMB72D

2382×1134×30mm  
32.3kg

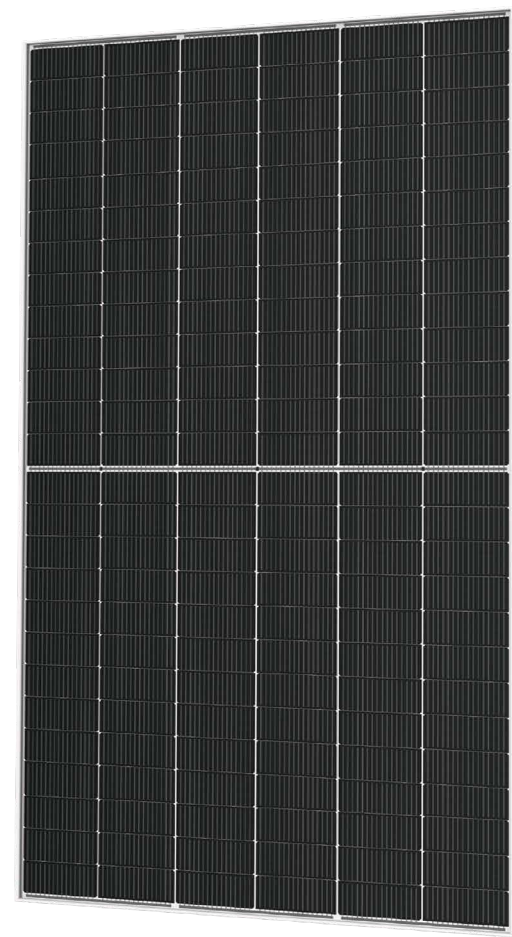
**660W**  
Maximum output power



CHGMN78D1

2465×1134×30mm  
33.9kg

**660W**  
Maximum output power



CHGMN78D4

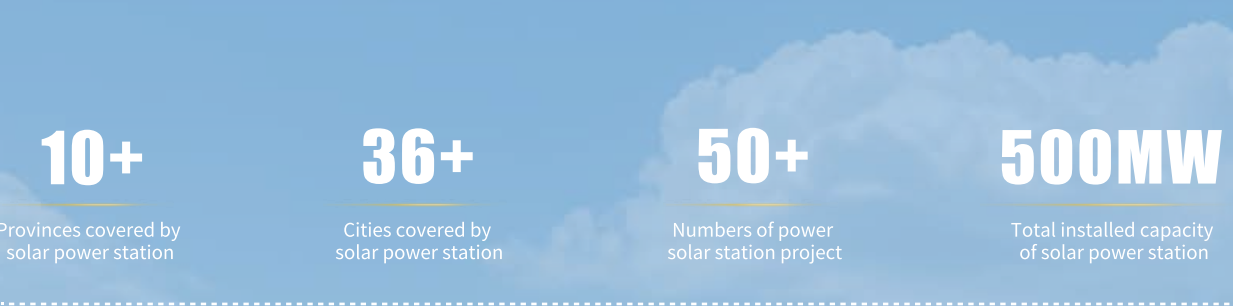
2465×1303×33mm  
39.0kg

**761W**  
Maximum output power



# Solar Power Plant

CHG (Anhui) Green Energy Development Construction Co., Ltd, as a subsidiary of Central New Energy Holding Group (Stock Code: 01735.HK), has created a comprehensive operation platform integrating solar power station investment and construction, asset management, "Photovoltaic+", and product sales. It provides enterprises with green energy full life cycle management and professional consulting services, and strives to become a global leading green energy solution service provider. The company specializes in distributed PV and Behind-the-Meter Energy Storage business. At the end of 2024, its total installed capacity will reach 500MW. In the future, the company will rapid development in the green energy industry. It will actively promote the high-quality development of the economy and make greater contributions to the construction of ecological civilization and global ecological governance.



Fengtai Development Zone Industrial Park **24MW** Distributed project



Hefei Lianchuang Optics **3.6MW** Distributed project



Central Holding Tong cheng Base Phase I **5.9MW** Distributed project



# Zero Carbon Industrial Park

CHG DiGiTech Co., Ltd is a wholly-owned subsidiary of Central New Energy Holding Group (Stock Code: 01735.HK), focuses on zero-carbon smart factory and industrial park solutions with integrated power grid, load and storage and multi-energy complementarity. It is committed to becoming a leading zero-carbon asset operator and solution service provider in China. With rich experience and achievements in sustainable urban construction, its comprehensive low-carbon industrial service platforms integrating power grid, load and storage have been put into operation. The CHG Low-carbon Industrial Demonstration Park in Huainan High-tech Zone with a planned investment of 1.35 billion yuan is under construction. At the same time, it has reached cooperation in low-carbon park development with Nan tong and Inner Mongolia, and continuously deepened the layout of low-carbon industries.





Cooperation Partners

 Jinko Solar	 JA SOLAR 晶 澳 太 阳 能	 LONGi 隆基	 國家能源集團 CHN ENERGY	 国家电投 SPIC	 中国华能 CHINA HUANENG	 中国华电 CHD	 大唐集团公司 CHINA DATANG
 中核集团 CNNC	 中广核 CGN	 華潤電力 CR POWER	 SDIC 国投电力	 中信泰富能源 CITIC PACIFIC ENERGY	 淮河能源 HUAIHE ENERGY	 中国电建 POWERCHINA	 中国能建
 国家电网 STATE GRID	 中国南方电网 CHINA SOUTHERN POWER GRID	 中国节能 CHINA ENERGY CONSERVATION AND ENVIRONMENTAL PROTECTION	 阳光电源 SUNGROW	 CHNT 正泰	 融捷能源 YOUNGY ENERGY	 SKYWORTH 创维	...





# Development Goals

## 60+GW

The goal for the next five years is to achieve an N-type TOPCon cell production capacity of 60+GW, solar panels production capacity of 12GW, actively expanding overseas market

## 30 billion

The annual output value is expected to exceed 30 billion Yuan

## Diversified Development

Focusing on solar cells and solar panels, we simultaneously develop multi-dimensional technology solutions such as photovoltaic storage and charging, BC, hydrogen ammonia alcohol oil (aviation kerosene), and perovskite, becoming a new-generation professional solar cell manufacturer and brand owner, green energy system integration provider, leading the development of clean and smart energy industries