

High purity Nitrogen Psa Systems Boost Performance And Reliability Of Photovoltaic Technology

Our Product Introduction

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Basic Information



Product Specification

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|----------------------|------------------------|
| • Features: | High Purity |
| • Other Name: | Psa Nitrogen Gas Plant |
| • Reliability: | High |
| • Power Supply: | 220V/380V, 50Hz/60Hz |
| • Warranty: | 1 Years |
| • Certificates: | BV,,CCS,ISO,TS |
| • Advantage: | Energy Saving |
| • Ex Certificate: | IEC Or ATEX Or GB |
| • Outlet Capacity: | 1000 Nm3/h |
| • Automatic Control: | Yes |
| • Noise Level: | ≤60dB |
| • Capacity: | 10-5000 Nm3/h |
| • Medium: | Clean N2 |
| • Capaicty: | 5~3000 Nm3/h |
| • Frequency: | 50Hz+/-1Hz |



More Images



Product Description

Application of GASPU Nitrogen Generator in Photovoltaic Industry

Nitrogen is mainly used as a protective gas and cleaning gas in photovoltaic technology, ensuring the quality and efficiency of photovoltaic modules by preventing oxidation and reducing impurities. Nitrogen has become an important element in photovoltaic production due to its chemical stability.

With the continuous growth of global demand for renewable energy, photovoltaic technology has gradually become an indispensable part of our daily lives. However, the use of nitrogen has become a crucial factor in the production of efficient and stable photovoltaic modules. So, what specific role does nitrogen play in photovoltaic technology?

Firstly, nitrogen has become a protective gas in the production process of photovoltaic modules due to its excellent chemical stability. During the manufacturing process, photovoltaic materials such as silicon wafers are highly susceptible to oxidation, leading to a decrease in performance. The presence of nitrogen effectively isolates oxygen from the air, preventing material oxidation and ensuring the quality and efficiency of photovoltaic modules.

Secondly, nitrogen is widely used in the cleaning process of photovoltaic modules. In the production process of photovoltaic modules, impurities often remain on the surface of materials, which can seriously affect the performance of photovoltaic modules. Nitrogen is an ideal cleaning gas because of its stable chemical properties and it does not react with materials. By blowing and cleaning with nitrogen, impurities on the surface of materials can be effectively removed, ensuring the quality and efficiency of photovoltaic modules.

In addition, nitrogen is also used in the packaging process of photovoltaic modules. Packaging is the final process in the production of photovoltaic modules, and it is also the key to ensuring the long-term stable operation of the modules. The use of nitrogen can effectively protect the internal structure and materials of the components, prevent moisture and oxygen in the air from corroding the components, and ensure the long-term stable operation of the components.

Overall, nitrogen plays multiple roles as a protective gas, cleaning gas, and encapsulation gas in photovoltaic technology.

Through its chemical stability and non reactivity, it ensures the efficient production of photovoltaic modules and makes important contributions to the development of the global photovoltaic industry. In the future development of photovoltaic technology, the application of nitrogen generators will become more widespread, and we look forward to GASPU nitrogen generators bringing more innovation and breakthroughs to the photovoltaic industry.



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