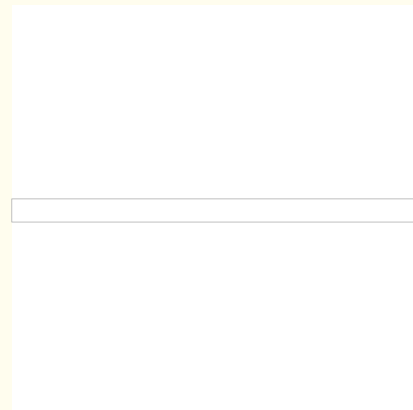


Vapor Deposition Process Psa Nitrogen Generator For New Energy Battery Industry

Our Product Introduction

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Basic Information



Product Specification

- Keyword: Psa Nitrogen Generator
- Control Power Supply: 0.2kw 220v 50Hz
- After-Sales Service: Online Support, Field Installation, Commissioning And Training, Field Maintenance And Repair Service
- Nitrogen Purity: 99.999%
- Noise Level: ≤55dB
- Surrounding Requirement: No Dust & Corrosive Gas 0-40
- Showroom Location: None
- Key Word: Nitrogen,nitrogen Generator Package
- Raw Material: Gas
- Pressure: 0.5-10 Bar
- Working Pressure: 8-10 Bar
- Net Weight: 1.98kg
- Air Compressed: Supply
- Make Brand: Powerbuilder Product Company



More Images



Product Description

Why can't the new energy battery industry do without nitrogen generators?

Are you curious why the new energy battery industry cannot do without nitrogen generators? In fact, nitrogen generators play a crucial role in the new energy battery industry. It processes nitrogen in the air to generate high-purity nitrogen, providing essential assistance for the production and manufacturing of batteries.

Firstly, nitrogen generators have played a significant role in the production of high-purity alumina. Aluminum oxide is one of the main components of positive and negative electrode materials in batteries, and its purity directly affects the performance stability of the battery. The nitrogen generator creates a low oxygen environment by separating oxygen and nitrogen from the air, promoting the sintering and forming of alumina, thereby improving its purity.

Secondly, the nitrogen generator also plays a crucial role in the vapor deposition process. Vapor deposition is a method of preparing thin films by transporting gaseous precursor substances to the substrate surface under high temperature and pressure conditions, forming high-quality and high-purity thin films. The pure nitrogen environment provided by the nitrogen generator ensures the stability of film quality and performance.

Furthermore, the nitrogen generator is also indispensable during the battery filling process. The positive and negative electrode materials of the battery need to be injected into the interior of the battery to achieve normal operation. The high-purity nitrogen gas prepared by the nitrogen generator can be used to purify and protect the injection environment, ensuring the quality and purity of battery materials. By eliminating oxygen inside the battery, oxidation reactions can be avoided to ensure the service life and performance of the battery.

Finally, the nitrogen generator can also prevent moisture and oxidation of new energy battery materials. New energy battery materials such as lithium-ion batteries are highly susceptible to moisture and oxidation, leading to a decrease in performance. The high-purity nitrogen environment provided by the nitrogen generator can effectively prevent material oxidation and pollution, ensuring the performance of the battery.

In short, nitrogen generators play an indispensable role in the new energy battery industry, providing efficient and stable support for battery production and manufacturing.



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