## **SOLAR** Pro.

## **Dust-free workshop new energy battery**

Why do EV batteries need a cleanroom?

Cleanrooms are the backbone of EV battery manufacturing, providing a controlled environment where precision and quality control reign supreme. These specialized environments ensure that EV batteries are assembled and manufactured with utmost care, meeting the stringent standards required for efficiency, safety, and longevity.

What is a clean and dry room in lithium-ion battery manufacturing?

The core processes in lithium-ion battery manufacturing such as electrode manufacturing and battery cell assembly are performed in the Clean and Dry (C&D) rooms. In this article, we will deeply consider the peculiarity and challenges of clean and dry rooms in battery manufacturing specifically from the HVAC perspective.

What is a clean room for battery manufacturing?

The clean rooms for battery manufacturing usually use the following classes of cleanness ISO 8,ISO7,and ISO6per ISO 14644-1 standard or equivalent classes 100,000; 10,000; and 1,000 per FS209E standard. These classes belong to the middle class of cleanliness. But besides the cleanness,the process room in battery manufacturing shall be dry.

What are the guidelines for EV battery manufacturing?

For EV battery manufacturing, particularly in the context of lithium-ion battery cells and packs, the following general guidelines might apply: Cell Manufacturing: The cell manufacturing process for lithium-ion batteries requires a high level of cleanlinessto prevent contaminants from affecting the performance and safety of the cells.

What is the required ISO Class / cleanliness level for an EV battery cleanroom?

The required ISO class or cleanliness level for an EV battery cleanroom environment depends on the specific processes being carried out within the cleanroom and the industry standards or regulations applicable to EV battery manufacturing.

What is a dry room in battery manufacturing?

These classes belong to the middle class of cleanliness. But besides the cleanness, the process room in battery manufacturing shall be dry. A dry room is a premises with a controlled low moisture level in the air.

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(2)In terms of process, we must first ensure the cleanliness of the workshop and better adopt a dust-free workshop so that no dust and impurities will enter during the ...

The construction of dust-free workshops in new energy lithium battery factories is crucial for ensuring the quality and safety of lithium batteries. Among them, HVAC design layout is one of ...

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