

PV Direct-Drive 24h Cooling System

English One-Page Introduction

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1. Product Core Positioning

This product is a PV Direct-Drive Battery-Free 24h Cooling System independently developed by our company, with core patents covering three fields: energy saving & carbon reduction, medical health, and military logistics. Specially designed for high-temperature, strong-sunshine and desert climates, it operates without large-scale battery packs, achieving 24-hour uninterrupted cooling. It is perfectly suitable for the extreme climate and energy demands of Middle Eastern countries, serving as a new type of new energy cooling equipment with environmental protection and practicality.

2. Core Technical Advantages

1. Direct PV Drive, No Battery Storage Required

Directly connectable to solar PV systems, eliminating the need for large-capacity batteries essential for traditional PV air conditioners. It greatly reduces upfront investment and later maintenance costs, solving the industry pain point of traditional PV equipment "usable only in daytime, unavailable at night".

2. 24-Hour Uninterrupted Stable Cooling

Relying on independent cold storage technology and intelligent energy management system, it runs on solar power in daytime and maintains stable cooling at night without sunshine restriction, meeting cooling needs all day long.

3. Strong Adaptability to Extreme Environments

With superior high temperature resistance and dustproof performance, it operates efficiently in tropical, subtropical and arid desert areas, fully adapting to the special environment of perennial high temperature, strong sunshine and sandy wind in Middle Eastern countries.

4. Energy Saving & Low Carbon, In Line With Green Development

Maximizes the use of clean solar energy, significantly reduces grid electricity consumption and fossil fuel use, effectively cuts carbon emissions, and conforms to the new energy development, carbon neutrality and green low-carbon construction strategies of Middle Eastern countries.

3. Core Patent Application Fields

1. Energy Saving & Carbon Reduction: Applicable to government public buildings, commercial complexes, industrial parks, hotels and residences in Middle Eastern countries, helping build green constructions, control energy costs, and promote the achievement of regional energy conservation and carbon reduction goals.

2. Medical Health: Provides 24-hour constant temperature support for mobile hospitals, temporary medical stations, CDC, vaccine and pharmaceutical cold chains, avoiding damage to medical supplies caused by high temperature, safeguarding public health security, and adapting to emergency medical and livelihood security needs.

3. Military Logistics: Designed for military camps, border outposts, field command centers and equipment warehouses in Middle Eastern countries. It can operate independently in off-grid/weak-grid areas, reducing dependence on diesel generators and logistics supply pressure, and improving field training and logistics support capabilities.

4. Cooperation Intention

We sincerely seek cooperation with government departments, energy enterprises, real estate developers, medical and military-related institutions in Middle Eastern countries. We hope to be included in local government and enterprise procurement lists, participate in cooperation in new energy projects, livelihood infrastructure, medical security, military logistics and other fields, jointly build green, low-carbon, efficient and stable cooling solutions, and boost energy transformation and sustainable development in the Middle East.