Deyi Renewable Energy

Deyi Renewable Energy Co., Ltd | www.deyipv.com

CONTENTS

I Company Profile

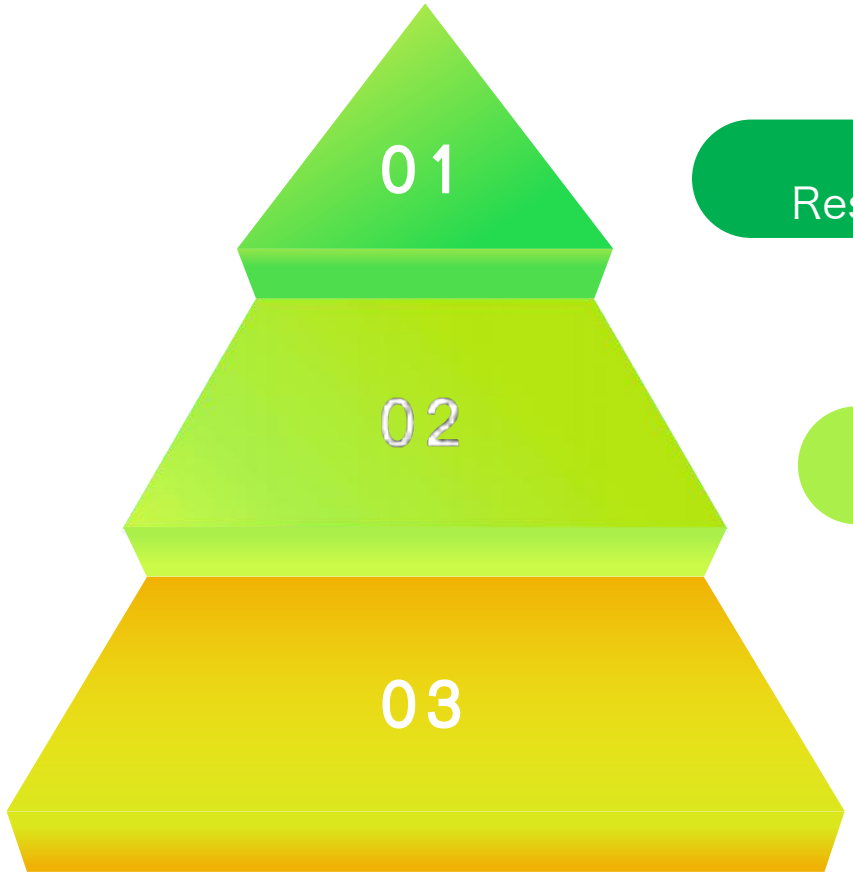
Deyi Renewable Energy

Deyi Renewable Energy Co., Ltd is a comprehensive service provider of renewable energy solutions, invested by HPY and ESUN.

Deyi primarily runs PV business, including the engineering, R&D and production of the inversion and controlling system, as well as the development, installation and maintenance of energy solution products for commercial&industrial use, civil use, police use, military use, etc. To assist business and serve customer better, we also run a self-developed online service platform (MNENET).

After more than 10 years development, Deyi has buit a muture product system, and will continue to give full play to its profesional advantage to bring more premium products and service to people all over the world.

Company Culture



Social Responsibility

Assist CO2 relief,
Practise green development

Company Mission

Promote the application and popularization of renewable energy

Core Value

Honesty, Innovation,
Cooperation, Win-win

Development Strategy

Business Strategy

Deepen R&D, Widen application

Market Strategy

Based in China, Serve the world

Talent Strategy

Honesty bring trust, Profession win reliance

Development Journey

2008

HPY Founded

Enter renewable energy filed

2013

ESUN Founded

Enter oversea market

2023

Africa Storage Centre Serves

Deeply cutivate off-grid market

2024

Deyi Founded

Integrate resources, refine duty division

Global Placement

Achievement

287MW
Off-grid Installation

1.5GW
On-grid Installation

01

Off-grid

By Apr. 2025, totally sold off-grid system about 33000 sets

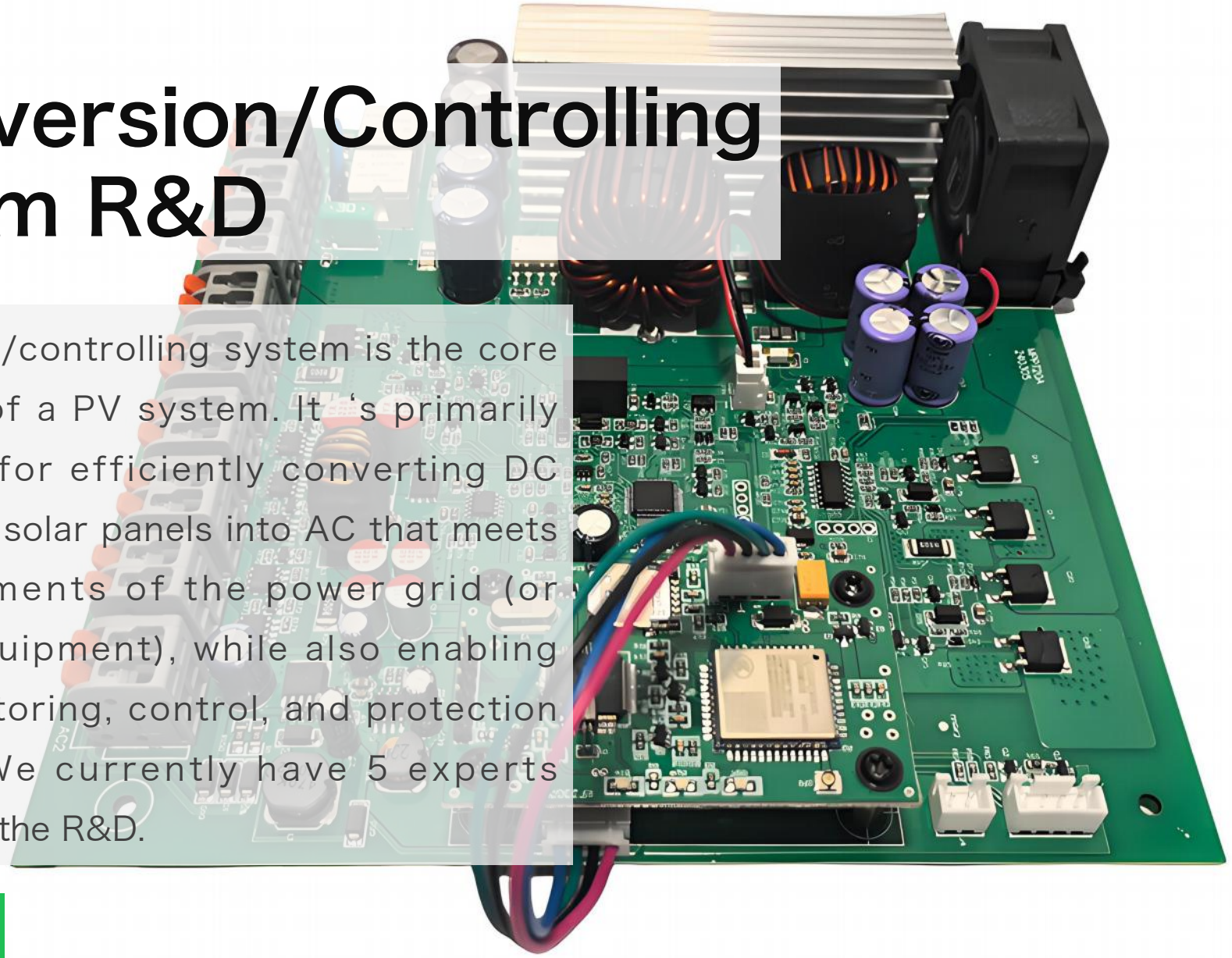
02

On-grid

By Apr. 2025, totally constructed on-grid station about1.5GW

II Business Scope

2.1 Inversion/Controlling System R&D



The inversion/controlling system is the core component of a PV system. It ‘s primarily responsible for efficiently converting DC generated by solar panels into AC that meets the requirements of the power grid (or electrical equipment), while also enabling system monitoring, control, and protection functions. We currently have 5 experts specializing in the R&D.

关键信息

2.2 Off/On-grid PV Powering Solution

The core components of PV powering system include solar panel, controller, inverter and energy storage unit. According to different power usage scenarios and electrical equipment requirements, it’ s generally categorized into off-grid system and on-grid system.

- Solar/Wind Microgrid
- Solar Pumping
- Solar Monitoring
- Solar Free Travel

2.2.1 Solar/Wind Microgrid

A PV/wind microgrid is a compact power system with solar and wind power as main energy source, meanwhile integrating ESS (e.g., batteries), BMS and electrical loads. It enables localized power self-sufficiency, flexible energy dispatch and efficient utilization, while supporting both grid-connected and off-grid operation.

2.2.2 Solar Pumping Solution

The photovoltaic water-lifting irrigation system operates entirely on solar power to pump groundwater or surface water for crop irrigation, eliminating dependence on conventional electricity grids. This makes it ideal for off-grid applications such as remote electrification-challenged regions, desert/gobi ecosystem restoration, and terraced field watering.

2.2.3 Solar-powered Monitoring Solution

Solar-powered monitoring solution refers to a system solution that utilizes solar power generation to provide electricity for monitoring equipment. Compared to traditional monitoring systems, it offers greater flexibility by eliminating reliance on the municipal power grid, which highly improves installation coverage and maximizes the effectiveness of the monitoring system. This brings significant benefits to agricultural production, forest/grassland fire prevention, traffic safety, flood control, and disaster mitigation.




2.2.4 “Solar Free-travel” Solution

The significance of solar free-travel lies in leveraging the flexibility of photovoltaic power generation to expand human mobility and overcome off-grid electricity challenges. Our “Solar Free-travel” product series inlude outdoor mobile power, portable charging devices and beehive power station. They address diverse power needs across scenarios with varying capacities and form factors, enabling true energy independence beyond grid constraints.

2.3 Production of Core Components

Quality is the lifeline of an enterprise. Responsible for quality means responsible to customers, and responsible to enterprise itself. We holds an annual capacity of 1.2GW of solar modules and 30,000 units of inverters and controllers, either through equity participation or wholly owned operations. This capacity essentially meets our current business demands.

2.4 Online Operation

Intelligent cloud online remote monitoring&controlling platform (MNENER), timely monitor the working status of solar, wind, hybrid and microgrid electricity supply systems, provide users with services of online monitoring, erro alarm, history data searching, etc. It can also provide API interface to third-party, achieve data sharing. The system has access to solar/wind controllers, solar inverters, hybrid inverters. ES inverters, etc.

mnenet

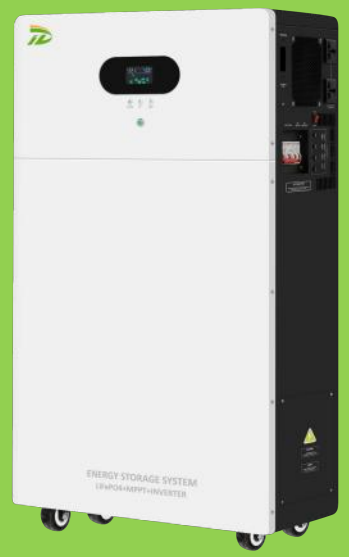
PC:
https://mnenet.com/scada

Mobile:
Search “mnenet 云平台”
through Wechat online app

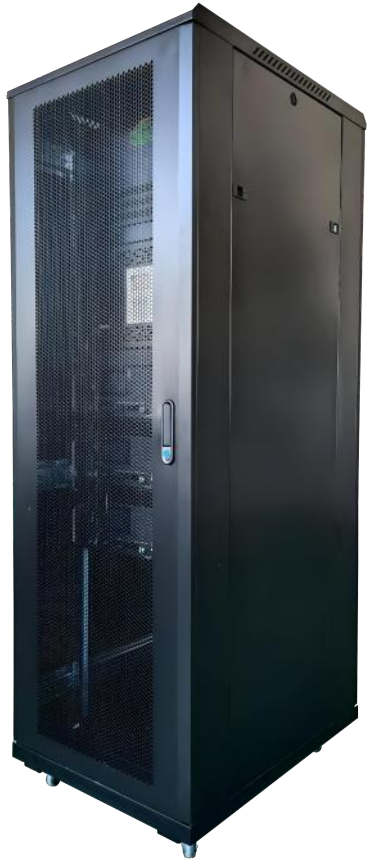
III Product Family

3.1 ESS Powering

Portable Suitcase
300-2000W

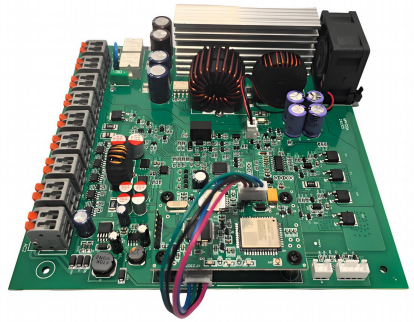


Household ESS Cabinet
300-7000W



On-grid/Off-grid ESS Cabinet
10-40KW

3.2 Inversion/ Controlling Embadded Module



20A PV Multi-function Module

20A PV Charge/Discharge Control Module

10A PV Charge/Discharge Control Module

3.3 Inversion/Controlling Hybrid Machine

The hybrid machine combines the functions of solar inverter and controller. It is primarily used in solar systems to convert DC generated by solar panels into AC that meets the requirements of the grid or loads, while enabling intelligent monitoring, regulation, and protection of the power generation and charge/discharge processes. Its core feature lies in the high integration of inversion, control and communication functions into a single device, simplifying system structure and improving efficiency and reliability.

Key Info

Low-frequency all-in-one

PV/ES all-in-one

3-phase all-in-one

3.4 Intelligent Control Box

Integrating the functions of ESS (LFP/SIB), charge/discharge control and remote communication. Enhancing system efficiency, simplifying installation, lowering system cost.

Battery Intelligent Control Box

System Intelligent Control Box

Integrating the modules of inversion, charge/discharge control, breaker, SPD, communication, screen, LFP room, etc. Enhancing system efficiency, simplifying installation, lowering system cost.

3.5 Portable Solar Charging

Folding Panel 1.0

Folding Panel 2.0-Lightening

Folding Panel 3.0-Flexible folding

3.6 Solar Panel

Standard Solar Panel

Customized Solar Panel

Flexible Solar Panel

3.7 Other Products

Solar Gel Battery

LFP

Cable

IV Project Case

4.1 Off-grid Case

BAST Moveable Hybrid Energy Supply Container

25KW Border Defence Powering

NMEJ 3KW*100 Hybrid

30KW Agricultural Greenhouse

2.4KW Forest Fireproof Monitoring

Railway Monitoring 500W*29

4.1 On-grid Case

Sweden 14KW Farm Building

Mijiagou 130KW

Combustion Engine Plant 3.2MW

Residential Building 375KW

Shunyi Hospital 300KW

Logistics Park 1.5MW

Thanks!

Deyi Renewable Energy Co., Ltd | www.deyipv.com