

WALDEVAR

R&D ROBOTICS



Off-grid power.
On your terms.

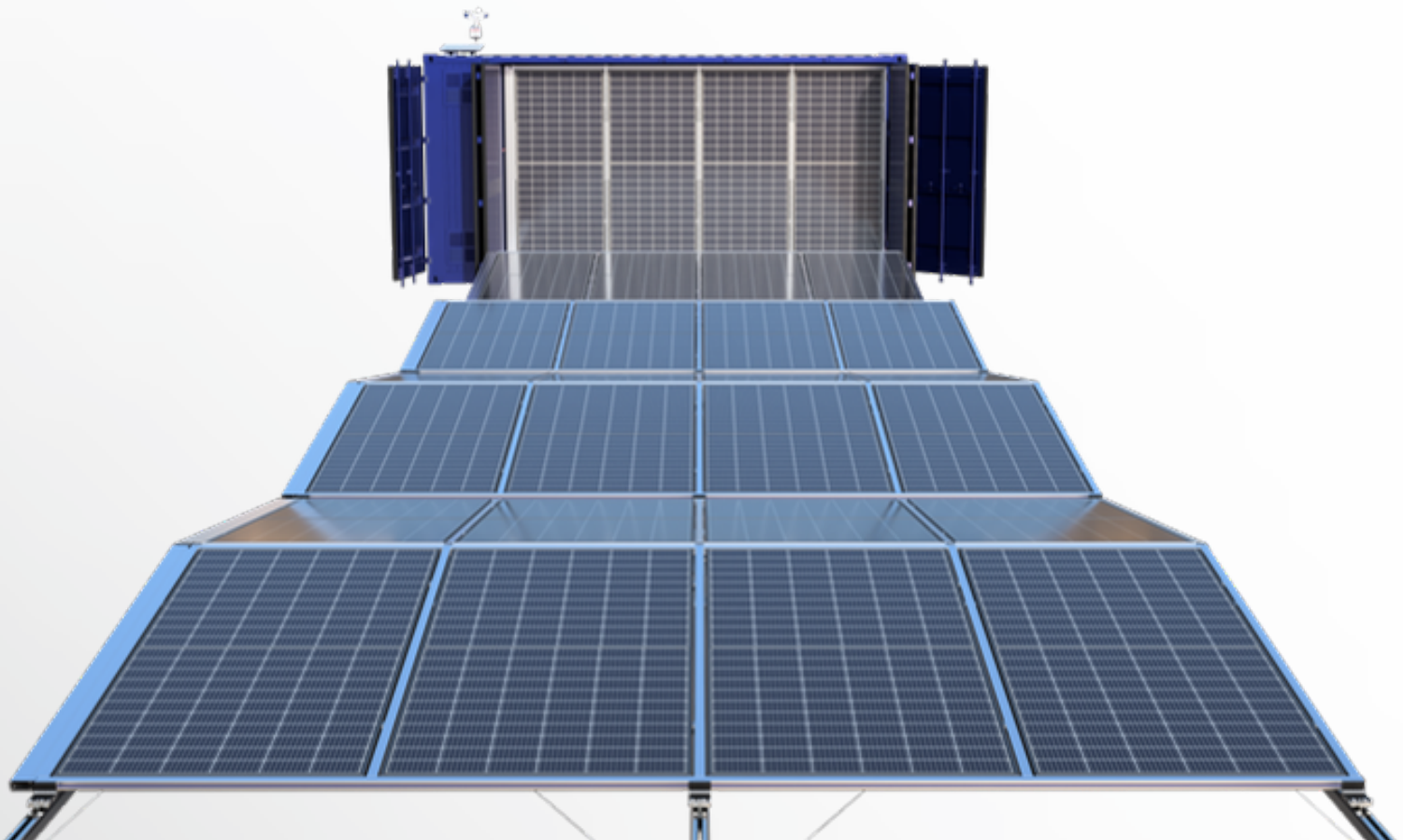
Mobile PV Power Container

Autonomous. Durable. Ready to Deploy.

Strategic Overview

Your Instant Power Solution

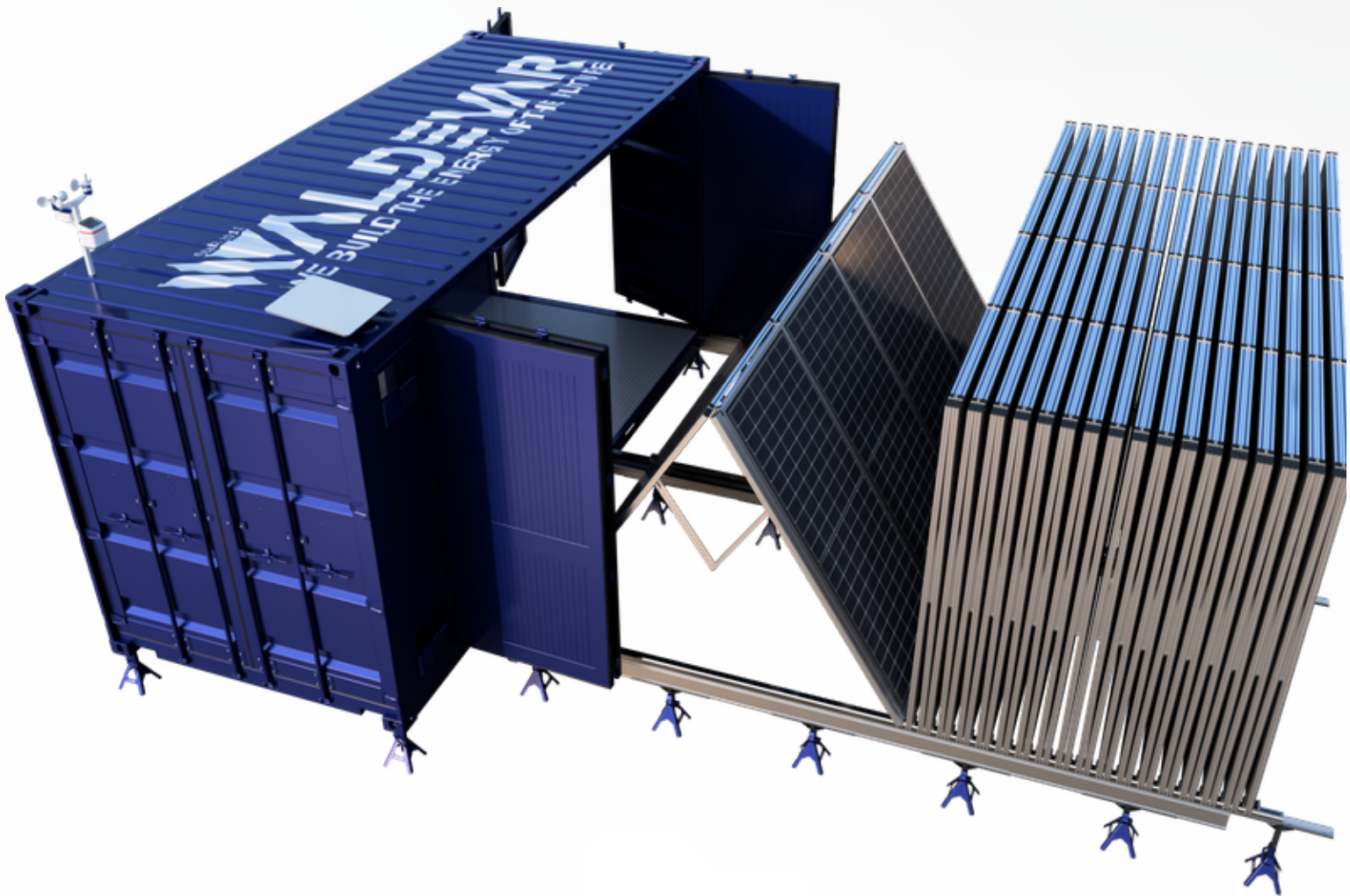
Our high-performance solar container is designed to deliver reliable, clean energy in **remote** or **off-grid environments**. Built with premium components and engineered for autonomous operation, it ensures energy independence in the most challenging conditions.



Advantages of the PV Container

Clean power wherever you need it

- **Energy Independence** – No reliance on fuel or external grid
- **Rapid Deployment** – Plug-and-play solution that can be operational within hours
- **Reduced Operational Costs** – Minimal maintenance and no fuel dependency
- **Scalable & Modular** – Easily integrated with additional units
- **Sustainable & Eco-Friendly** – Zero-emissions power supply



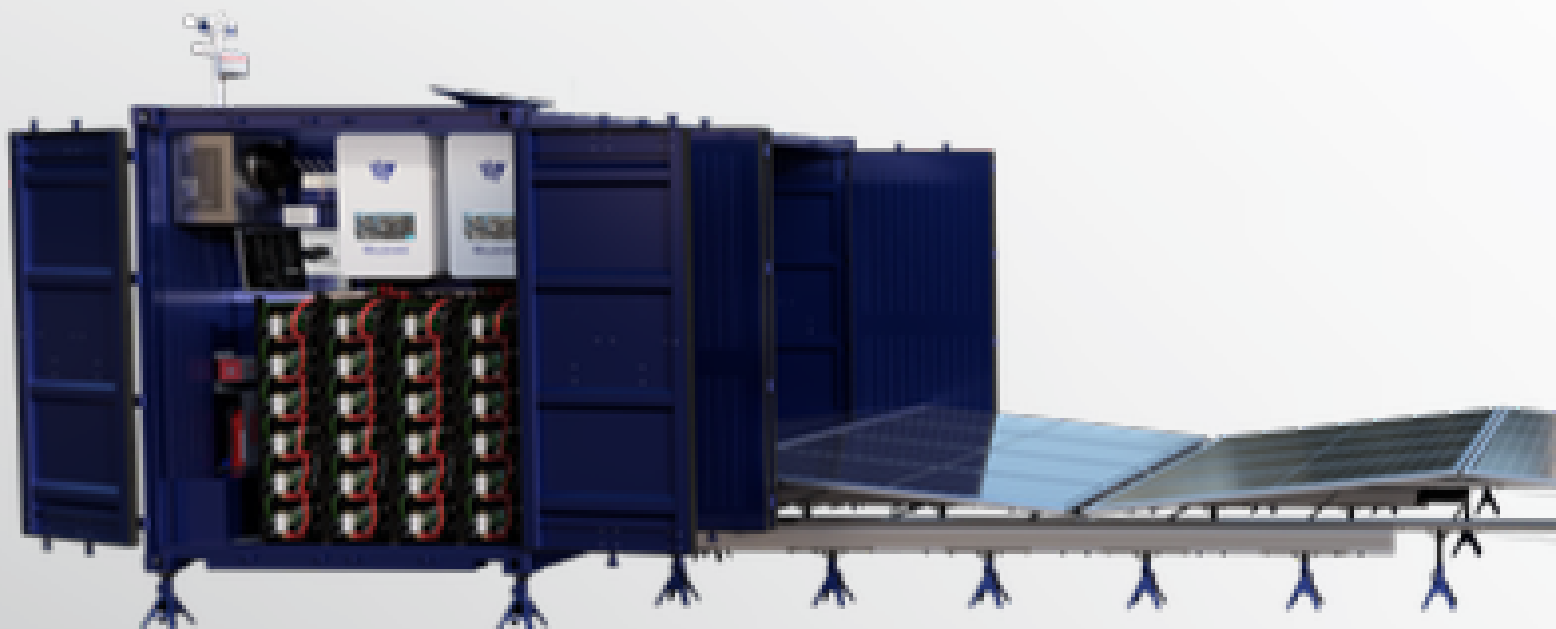
Total Energy Output:

Maximum nominal power up to 92 kW, depending on solar conditions and system configuration (using 640W Horay panels, available from end of 2026)

Peak Power **with batteries up to 150 kW.**

Components

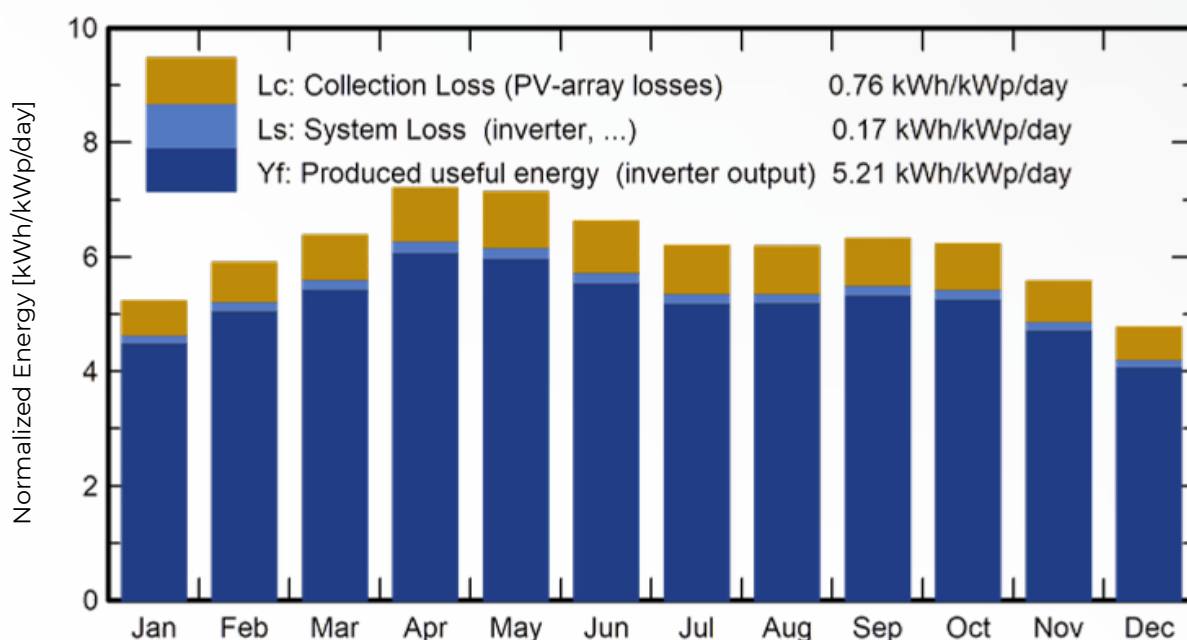
- ▶ Designed using industry-leading technology, this unit brings together reliability, efficiency, and ease of use in one plug-and-play package
- ▶ Horay Solar® Panels – High-efficiency *N-type* panels
- ▶ Solar MD® Batteries – Lithium-ion storage system with robust energy management
- ▶ Deye® Inverters – Intelligent hybrid inverters for seamless energy conversion



Key Features

Beyond Power: Your off-grid energy solution

- ▶ **Fully Integrated & Mobile** – All-in-one power solution
- ▶ **Rapid Deployment** – Automated setup with minimal manual input
- ▶ **Smart Forecasting** – Built-in weather station for real-time energy planning
- ▶ **Certified & Compliant** – International safety and transport standards
- ▶ **Durable & Secure** – Engineered for mobility, protection, and longevity in any environment
- ▶ **Connected & Controlled** – Optional satellite internet connectivity, climate control and fire suppression for reliable operation anywhere.
- ▶ **Example of system production** – *for Muscat, Oman* with specific production – 1814 kWh/kWp/year (using Horay® 620W panels)



Simulation report created in PVsyst V8.0.11 using Horay®620W panels





Remote industrial sites



Military bases & operations



Emergency response & disaster relief



Off-grid communities



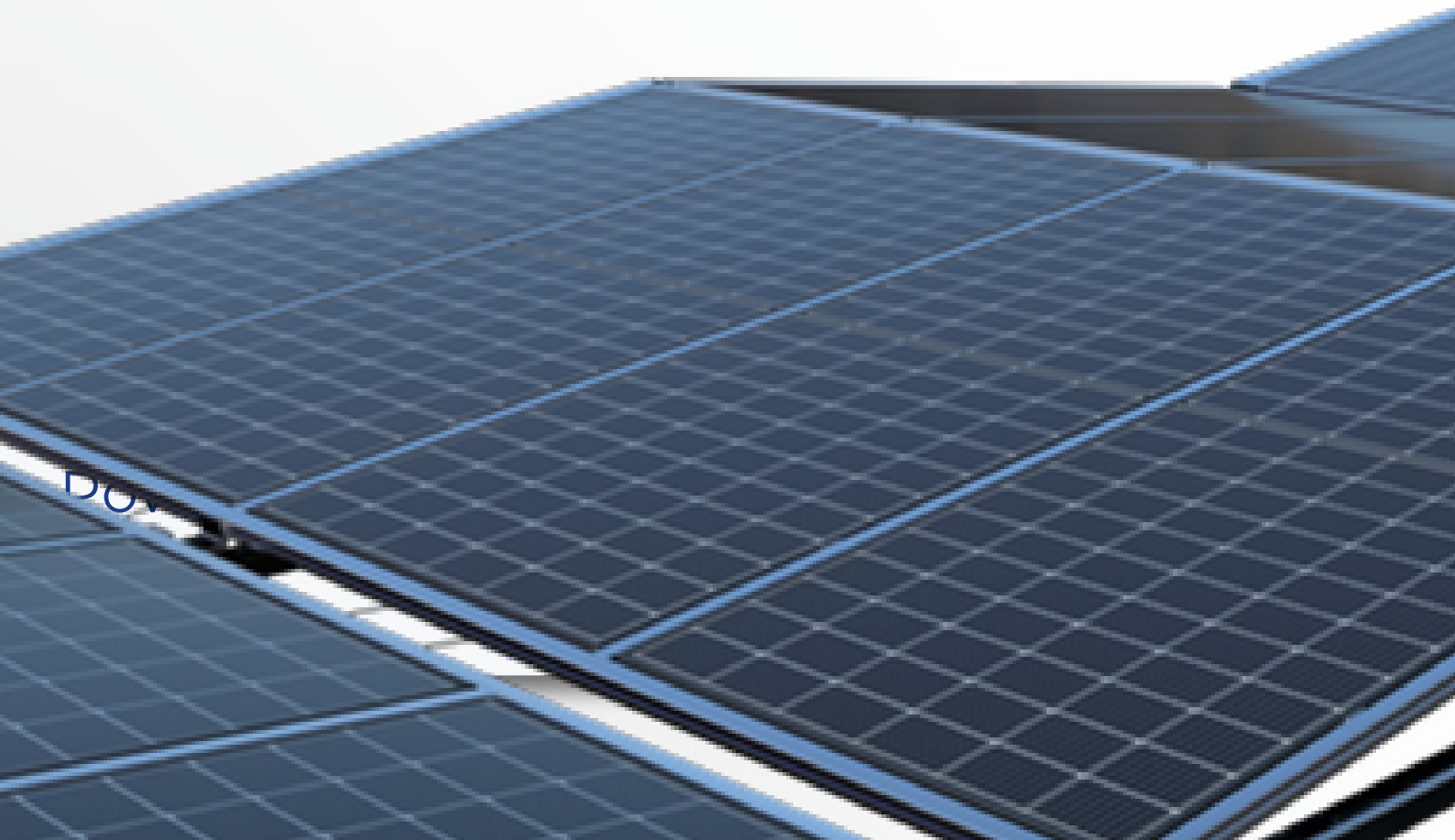
Eco-tourism & festivals



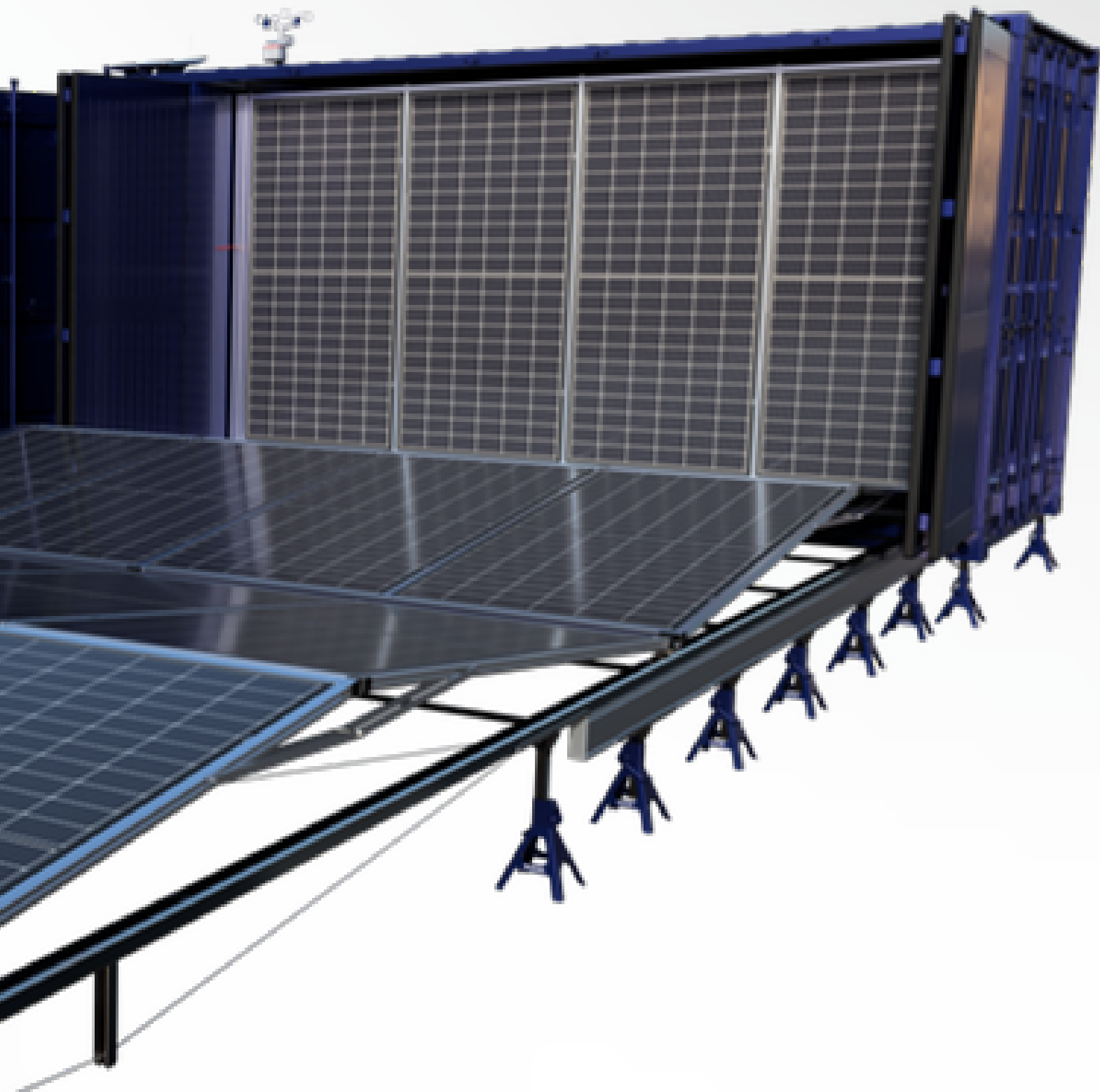
Construction and mining sites



Mobile field labs or research stations



Energy wherever it's needed.





Solar Array

- 144 × Horay Solar[®] HS620TC-MHC-D
- 620W *N-type* modules
- 640W *N-type* modules available soon
- Peak power up to 150 kWp
- Operating temperature -40°C ~ +85°C
- Wind load/ snow load 2400pa/ 5400pa
- Higher performance under low light environment
- East - West layout 7.5° tilt angle



Inverter system

2 × Deye SUN[®]-75K-SG02HP3-EU-EM6

75 kW hybrid 3 - phase inverter

160 A charge/ discharge

Peak power: 112.5 kWp (10s burst)

AC-coupling & generator-compatible

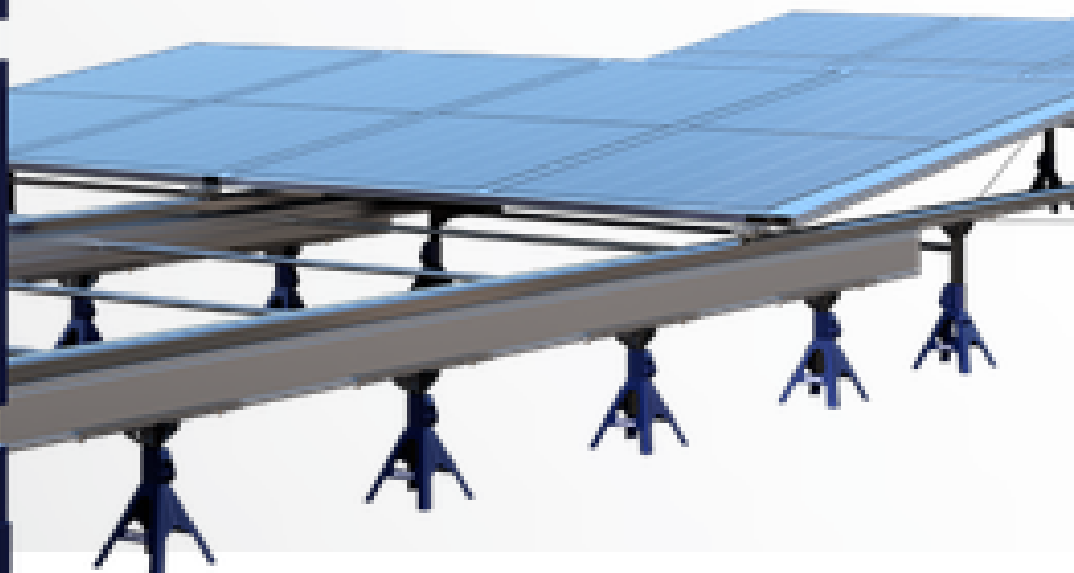
Max efficiency: 97.6%

Output voltage: 230 / 400 V

Grid connection from: 3L+N+PE

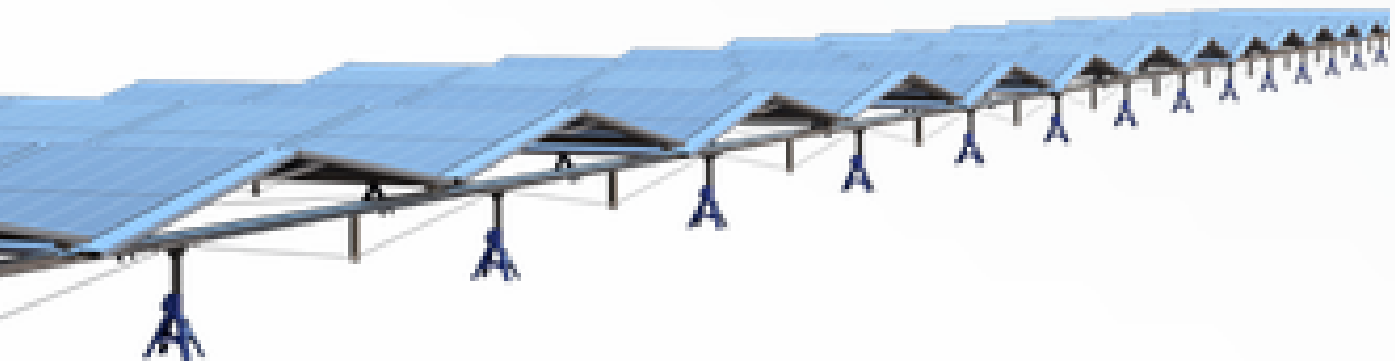
Output grid frequency: 50 Hz

Output active power: 150 kW



Battery System

- ▶ 2 × Solar MD® SS7018-05 (each: 11 × SS6160 modules + 1 shared BMU)
- ▶ Total capacity: 352 kWh
- ▶ LiFePO₄ cells (CATL)
- ▶ 7000+ cycles | CE / UL / IEC certified
- ▶ Integrated BMS per module & centralized BMU for system safety and performance
- ▶ Battery lifetime: 25 years
- ▶ Maximum discharge power: 150 kW





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