



C&I SOLUTIONS:

- PV Module(s)
- AC-Battery
- EMS
- Services

August 2025

Harvest the Sunshine

JA SOLAR PV & ESS
SOLUTION





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Harvest the sunshine

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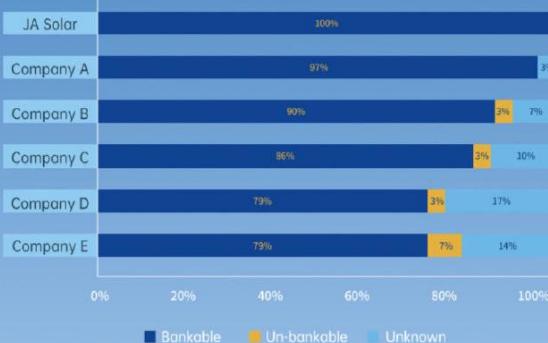
PART
01 INTRODUCTION

The background image shows an aerial view of a solar farm. Several large, rectangular solar panels are arranged in a grid pattern on a grassy field. The panels are tilted at an angle. A dirt path or road cuts through the field between the panels. The overall scene is bright and sunny, emphasizing the theme of renewable energy.



WORLDWIDE BANKABILITY

Top Bankable Module Brands by BNEF Survey



INTERNATIONAL ACCREDITATIONS

TOP PV BRAND

Award "Top PV Brand" by EUPD in multiple countries and regions for consecutive years.







Where is the raw material
from?



Traceability

Under what conditions
was it produced?



ESG Audits



PV MODULES

AC BATTERY



❯ BEST PRACTICES

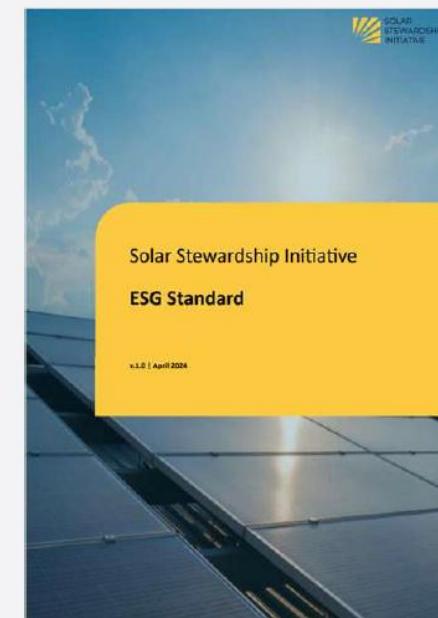
JA Solar is actively involved in the SSI, a solar-specific sustainability program led by Solar Energy UK and SolarPower Europe.

The SSI focuses on fostering a more **responsible, transparent, and sustainable** solar value chain.

JA Solar holds a seat in the SSI board.

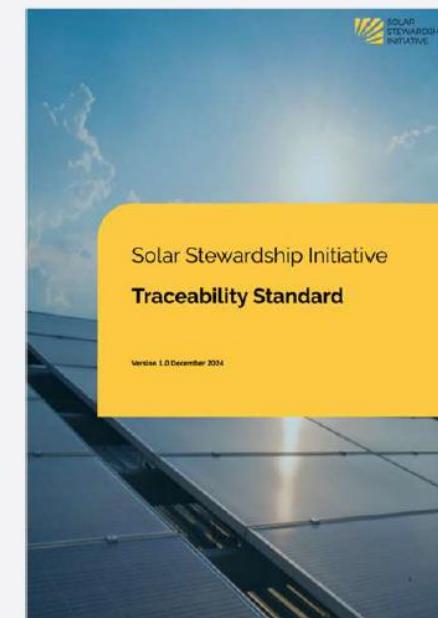


The Solar Stewardship Initiative (SSI) works collaboratively with manufacturers, developers, installers and purchasers across the global solar value chain to foster responsible production, sourcing and stewardship of materials.



Performance evaluated through:
→ Governance and Business Ethics
→ Environment
→ Human and Labour Rights.

2 CERTIFIED SITES



- Participation in the traceability pilot.
- Continuous working with our main polysilicon suppliers to be aligned with the standard.
- Ensures compliance with EU Forced Labour Product Ban



CS3D

Requirements to identify, prevent, and mitigate human rights and environmental risks across the supply chain

EU Battery Regulation

Requirements to enhance sustainability, safety, and circularity of batteries across the European Union

ROHS & REACH

Restrictions of use of hazardous substances in electrical and electronic equipment (ROHS)

Rules on the registration, evaluation, authorization and restrictions of chemical substances (REACH)

EU Conflict Minerals Regulation (Regulation (EU) 2017/821)

Requires companies to import tin, tantalum and tungsten, and gold (3TG) from responsible and conflict-free sources only

OECD Guidance for Responsible Supply Chains from Conflict-Affected and High-Risk Areas

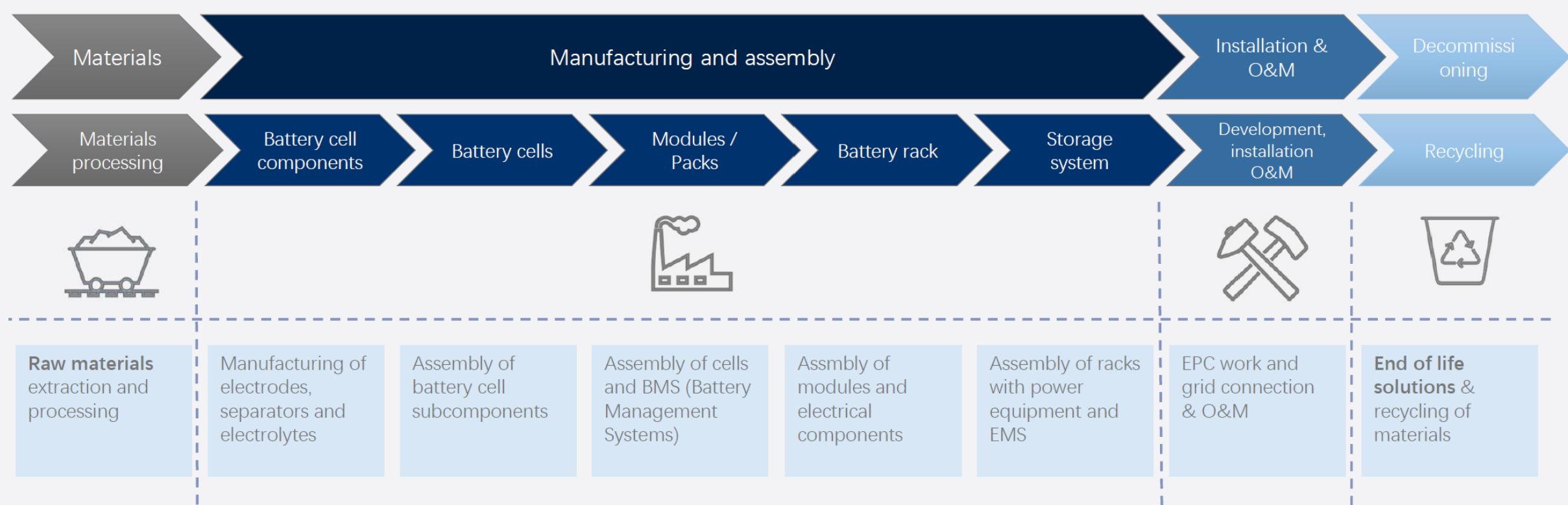
Five-step framework to help companies identify, prevent, and address risks of contributing to conflict or human rights abuses when sourcing minerals from high-risk area

UN Guiding Principles on Business and Human Rights

Set of guidelines developed to help businesses respect and uphold human rights in their operations and supply chains



Some of the Conflict-affected and high-risk areas (**CAHRAs**) under the Conflict Minerals Regulation





PART
02 BESS
PORTFOLIO



Utility-scale ESS

FTM and Large-scale C&I





BluePlanet BP-ES-125kW-261kWh

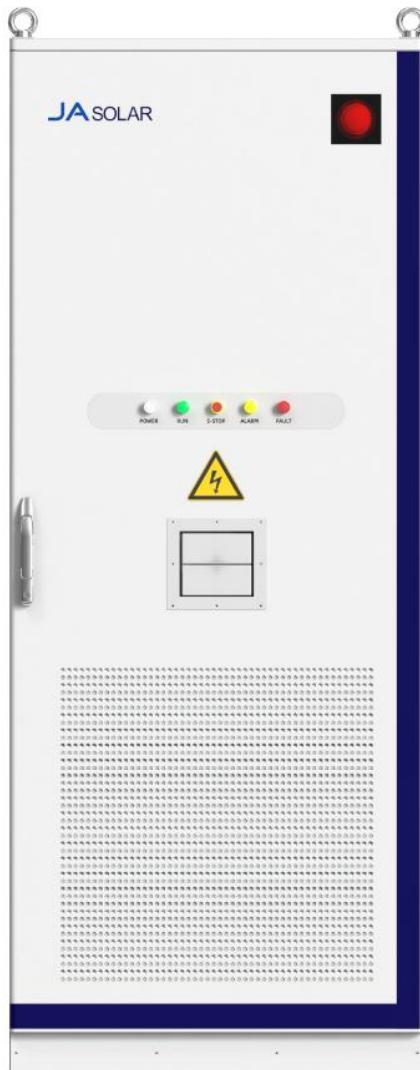
| | |
|------------------------|------------------------|
| Battery Capacity (kWh) | 261 |
| Nominal Power (kW) | 125 |
| DC Nominal Voltage (V) | 832 |
| AC Nominal Voltage (V) | 400 |
| Dimensions (WxDxH)(mm) | 989 × 1465 × 2471.5 mm |
| Weight (kg) | 2800 |



<https://www.jasolar.eu/ci>



| | |
|-----------------------|---|
| CAPACITY | 261 kWh LFP (Lithium iron phosphate, LiFePO4) |
| POWER OUTPUT | 125kW @ 400V / 50Hz |
| SCALABILITY | Up to 20 units can be connected for flexible designs |
| MONITORING | Highest comfort and reliability with 24/7 AI based remote control |
| EFFICIENCY | PCS >99% and battery has >88% |
| SECURITY | Battery: Intelligent three-level fire protection warning mechanism |
| ECONOMIC | Intelligent liquid cooling to manage the cell temperature difference <1.5°C |
| GRID FUNCTIONS | Supports Frequency Response and stabilization of grid connection point |
| BTM FUNCTIONS | Time Of Use, Peak Shaving, Demand Side Management |
| INSTALLATION | Pre-Installation and pre-commissioning for fast implementation |
| WARRANTY | Product warranty 5 years. Extension to max 10 years is possible |

**261kWh**

Total capacity, 235kWh usable capacity, LFP Battery

125kW

AC Power @ 400V / 50Hz

20units

can be connected for flexible designs

24/7

Highest comfort and reliability with AI based remote control

99% & >89%

Efficiency for PCS & Battery (RTE)

3-Level

Battery: Intelligent three-level fire protection warning mechanism

1.5°C

Intelligent liquid cooling to manage the cell temperature difference <1.5°C

100ms

Fast switching time discharge & charging

BTM

Functions, i.e. Time Of Use, Peak Shaving, Demand Side Management

1

Energy Management System for(almost) all applications

5 years

Battery (PCS 10 years?)



Battery Packs

BMS

PCS

Battery Cooling System

BMS - Battery Management System

PCS - Power Conditioner System

EMS - Energy Management System

SAFE AND RELIABLE

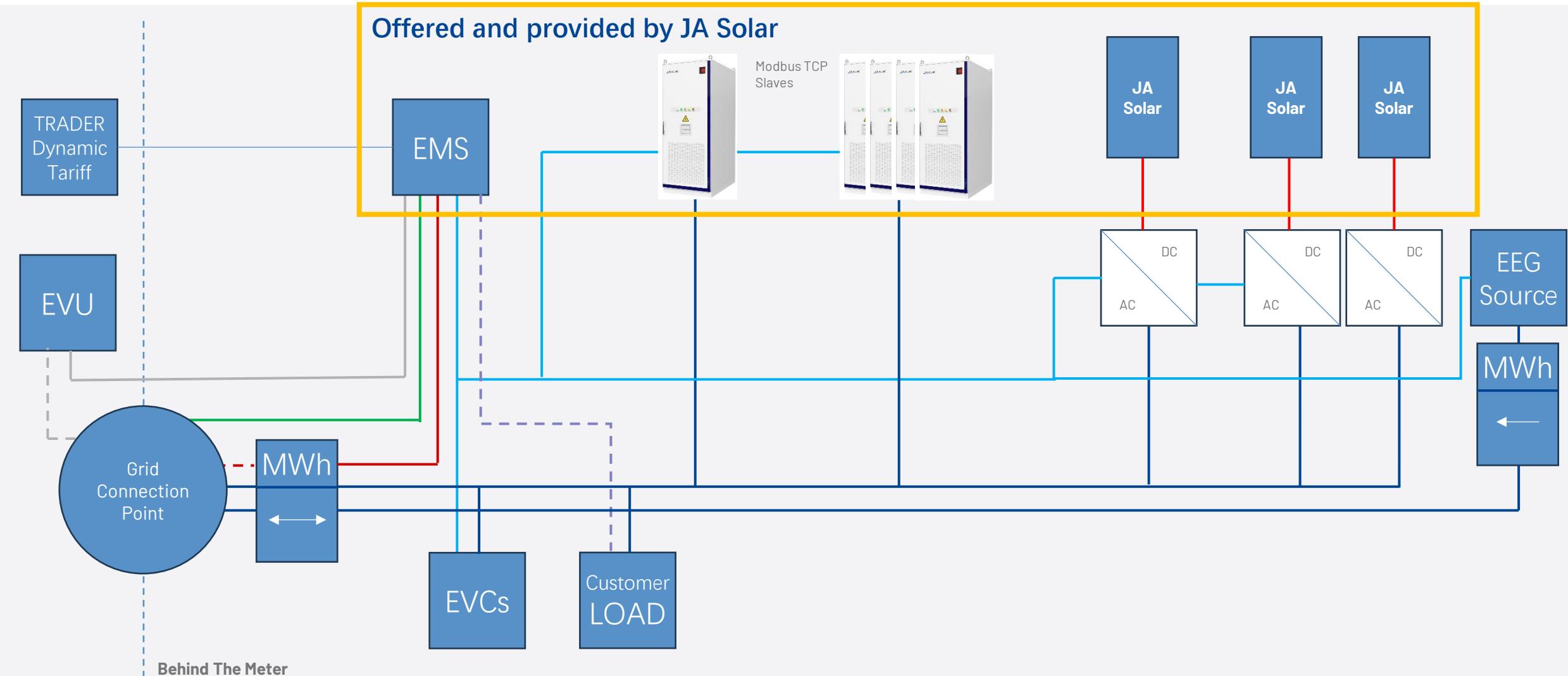
- Intelligent **three-level fire protection warning mechanism** with system explosion-proof design and pack-level detection & fire extinguishing
- **Cabinet withstands 1600°C** due to the explosion-proof & fire-resistant insulation with long-fiber alumina composite
- **Real-time AI monitoring** with early warning to prevent thermal runaway
- **Millisecond-level linkage response**

ECONOMIC AND EFFICIENT

- **Long-life LFP batteries** can provide higher returns on investment
- **Intelligent liquid cooling** to manage the **cell temperature difference within $\pm 1.5^\circ\text{C}$**
- Low auxiliary energy consumption, 30% less than air-cooled product.
- **Maximum 20 grid-connected** units in parallel to **provide 5MWh+ solution.**

SMART AND CONVENIENT

- **High precision SOX algorithm**, full-time passive balancing and status monitoring.
- **Pre-installation and pre-commissioning** in factory for easier site work.
- **Full traceability of components** during the manufacturing process **simplifies O&M, and after-sales services.**
- Pre-built multi-scene control strategies.



PART
03

WHY TO CHOOSE JA SOLAR?



JA SOLAR CUSTOMER PROMISE

ADVANCED MONITORING:

Review performances for JA Solar PV modules (based on string data) and AC-battery

CONSULTING:

Pre-Sales support & review project performance for possible further optimization

RELIABILITY:

Project solution fulfils customers (installer and end-customers) expectation

SIMPLIFICATION:

Of project complexity with (own) Energy Management System



| CUSTOMER NEEDS & REQUEST | JA SOLAR OFFER & SOLUTION |
|--|---|
| Ensure energy purchasing cost savings | PV and BESS project approach is designed to customer needs |
| Understand energy consumption & -costs and potential savings | Advanced AI monitoring and cost analysis |
| Flexibility to ensure technology and market trends | Solution is expandable and can adapt external communication protocols for EMS |
| All-In-One Solution One Warranty One Contact Partner | Ensure high team- & product performances for best highest customer satisfaction |



One Contact
for PV & BESS!



Simple All-In-One
Design!



Cost Savings
Through Faster
Installation!



Superior Safety
With REPT
Batteries!



Harvest the Sunshine

Premium Cells, Premium Modules