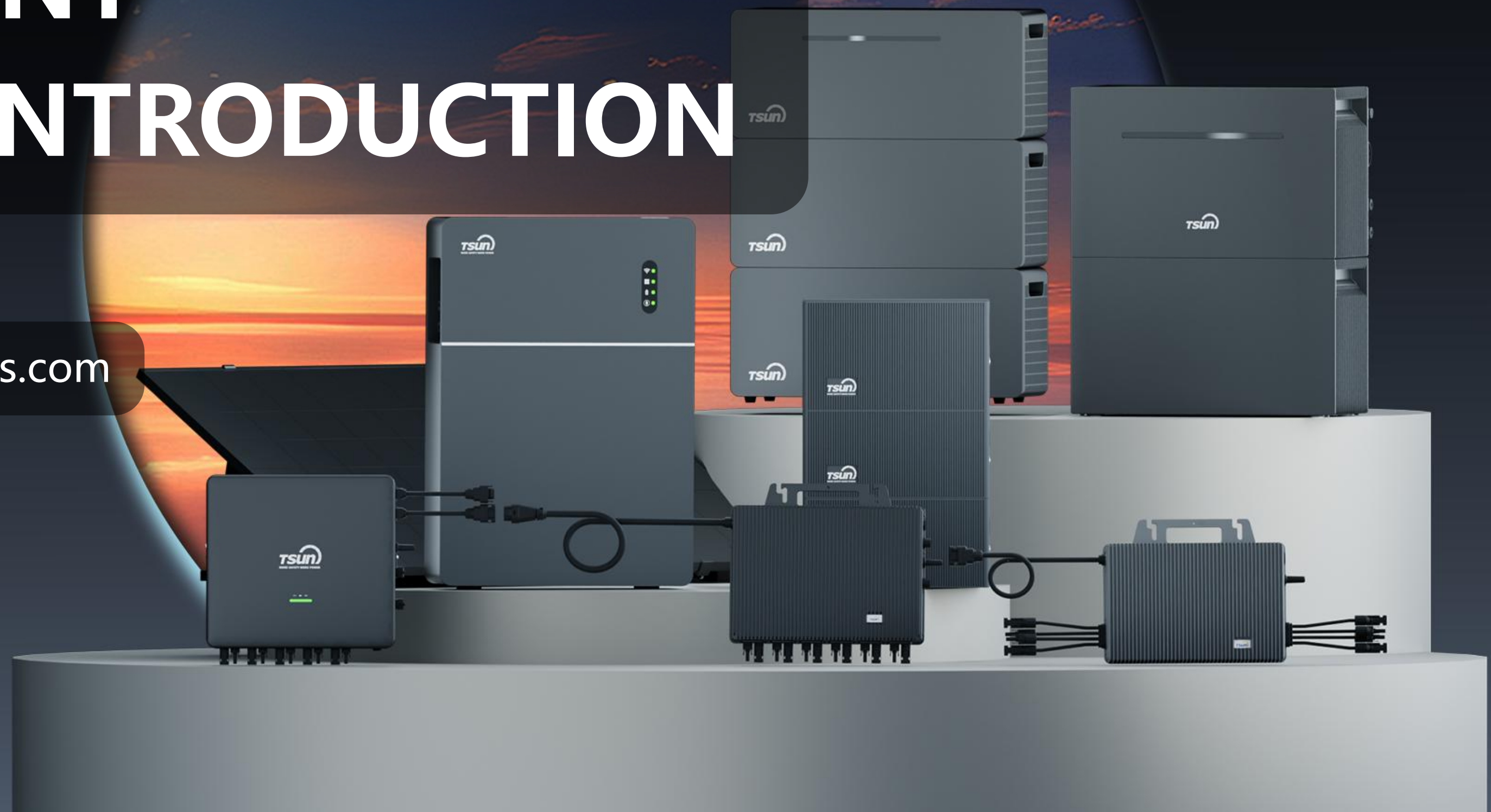




# TSUN COMPANY & PRODUCTS INTRODUCTION

TSUNESS Co., Ltd

[www.tsun-ess.com](http://www.tsun-ess.com)




# Content

- 01 **Company Introduction**
- 02 **Microinverter Products**
- 03 **ESK Products**
- 04 **Energy Storage Products**
- 05 **Policy for Partners**

01

| **Company Introduction >>>**

# Towards the Sun



"PV panels face the sun to generate more energy.  
TSUN faces the challenge to manufacture innovation."  
Mr. Andy Liu

# About TSUN



Innovator of  
**High-Power  
Microinverters**  
Worldwide

Pioneer of **Plug &  
Play** Balcony Solar &  
Storage Solutions

Leader in **Smart  
Lithium Batteries** with  
Optimizers

**1st**

Microinverter Brand Certified by VDE' s Latest  
EMC Testing

**No.1**

Powerful Microinverter

**2,000,000+**

Global Installations

**1st**

Smart Lithium Battery Optimizer  
in Energy Storage

**30+**

Countries Export Footprint

**1,000,000+**

Annual Production Capacity





# Milestone and vital times



## 2009 Embarking on Exploration

- The pioneer founding team from China's first string inverter enterprise Eversolar (acquired by SMA)

## 2019 Starting TSUN

- The world's 1st Easy Solar Kit starting the era of PV appliances.

## 2023 Capital Recognition

- The highest pre-IPO valuation ( \$ 200M) among China's microinverter companies after 2 series financing.

## 2024 Strong Sales

- Launched 3300W single-phase and three-phase microinverters, completing the world's most comprehensive microinverter portfolio from 300W to 3300W.

## 2025 Innovative Products

- Launched the energy storage product portfolio including MH, DCU, MSU, and MAU, marking a strategic transition into energy storage solutions.

# The **Most Innovative** Company in Microinverters & Energy Storage



**17+**  
Invention patents

**39+**  
Utility patents

**17+**  
Design patents

**4+**  
Software copyrights



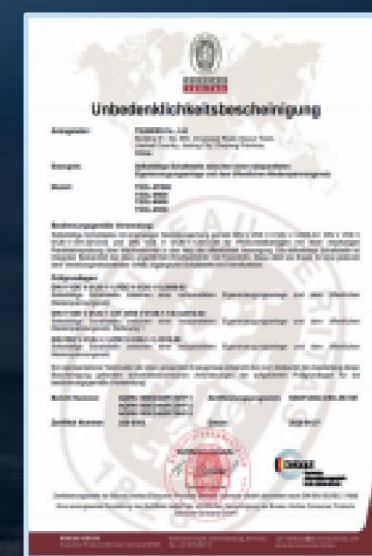
CE



VDE



TUV



BV



# Output Capacity Planning

2025 3.0

2023 1.0


 **Factory 1.0**  
**4000+1000m<sup>2</sup>**

 5 assembly stations

 Production capability  
of 60,000 sets per  
month



2024 2.0

 **Factory 2.0** **11000m<sup>2</sup>**  
(Put in use in 2023.12)


 5 assembly production lines  
**ESK production lines**

 Monthly manufacturing  
capacity of 200,000 sets



 **Factory 3.0** **47000m<sup>2</sup>**

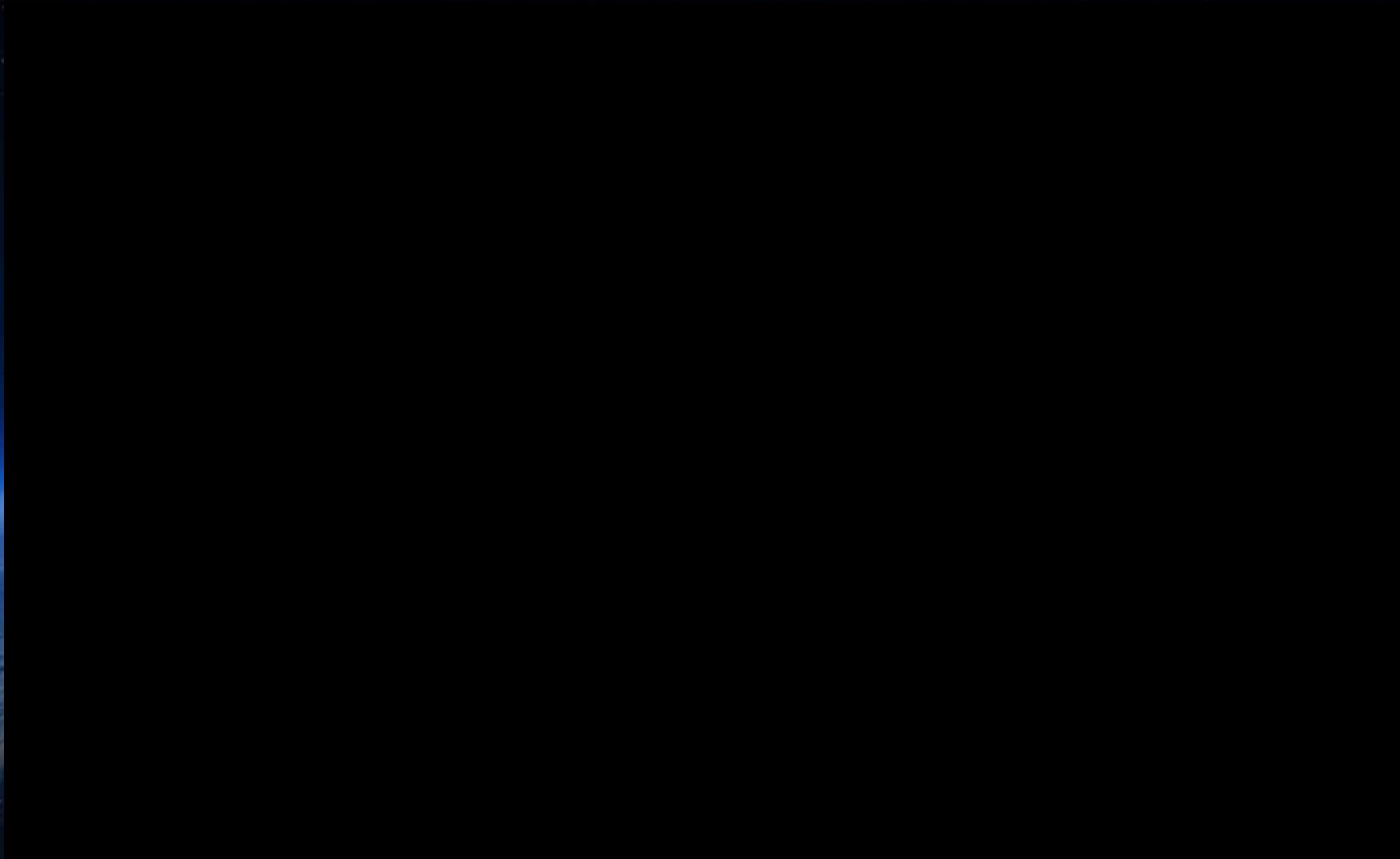
(Construction starts in  
2025.12, with delivery  
scheduled for 2027.6)

 2 automated SMT production lines  
8 automated assembly production  
lines

 Monthly production  
capacity of 400,000 sets



# TSUN New Factory



# Capital Support



## Angel Investors

- ✓ CEO and Partner of a globally diversified group in PV product manufacturing and power station investments.
- ✓ Senior executive of the world's top-ranked component brand.
- ✓ CEO of a leading domestic PV power station investment platform.
- ✓ Partner in a top domestic integrated photovoltaic manufacturing group

## International Investment Institutions



- ✓ GLP is a globally leading industrial service and investment company specializing in the supply chain, big data, and new energy sectors. Hidden Hill Capital is a private equity investment institution under GLP and specializes in new energy.
- ✓ Has invested in benchmark enterprise such Solarman, SHPT, SHQC.

## IDG Capital

- ✓ IDG Technology Venture Investment Fund, founded in 1992, is the earliest foreign investment fund to enter China and one of the most influential investors in the photovoltaic and energy storage industries in the past decade.
- ✓ Has invested in benchmark enterprise such Astronergy, GCL power and AIKO.

# Founder



**M.Sc Andy Liu**  
**Founder & CEO**

## PV Industry

- Entered the PV field in 2009, 15+ years industry experience.
- Initiating inverter transformerless solutions.
- The world 1st inverter IoT-enabled solutions.

## Proficient Manager

- Accumulated 10GW+ PV Projects.
- Operation of a Photovoltaic Power Station Investment Company.

## Cofounder & Partner

- Co-founder of Eversolar (acquired by SMA), the first inverter company in China.
- Partner in a number of pro-listed companies in China: Sofar, Solarman, QT solar, PROJOY.

## Credentials

- Innovation and Entrepreneurship, Talent Program at the Provincial, Municipal and District Levels.
- Enterprise Innovation Masters of "Science and Technology Innovation in Jiangsu" Program.

	FAU Erlangen-Nürnberg Master's degree, control engineering set de 2007 - mar de 2009
	同济大学 Master's degree, control theory and control engineering set de 2006 - mar de 2009

# Central Leadership Team



**Ellen Xue**  
**Sales VP**

Master of engineering in Germany. One of the first batch of developers of string inverters in China.



**Jocelyn Yu**  
**MKT VP**

Master of marketing in Germany. One of the first batch of developers of string inverters in China.



**Rick Chen**  
**R&D VP**

Master of engineering in Germany. Former head of JingLong Europe region.

Average 15 Years Working Experience in Solar Field

**10+** Years

Global Management Experience

**30%**

R&D department makes up 30% of the total workforce.



**Zoe Liu**  
**Production Director**

15 years of experience in photovoltaic manufacturing and quality management.



**Helen He**  
**BIZ VP**

QS ranks Global 500 Masters in Business. One of the first batch of developers of string inverters in China.



**Chenyang Pei**  
**Product Director**

Huazhong University of Science and Technology double degree talent. 10-year R&D experience.

# Worldwide Leadership Team



**Victor Segato**  
**Head of LATAM**

Italian-Brazilian citizen with more than 20 years of executive experience in international trade, logistics, sales, purchasing and project .



**Kanchana**  
**Country Manager-Thailand**

Master of Business Administration, with proven expertise in regional market expansion and customer development.



**Anoop Bhagat**  
**Country Manager - India**

Highly experienced master of technology and business consultant professional with more than 10 years in India's renewable energy sector at large multinationals.



**Javed Khan**  
**Region Sales Director**

Solar industry expert with extensive experience in building high-growth businesses.

**Our global presence ensures that we stay connected with local markets, enabling us to deliver tailored, efficient, and sustainable solar energy solutions. Together, we are committed to advancing the transition to renewable energy worldwide.**



**Yaowu Jiang**  
**COO - DACH**

Master of engineering in Germany. Experienced in cross-cultural team collaboration and localized operations.



**Yang**  
**Key Account Manager - DACH**

RWTH Aachen University Master. Extensive sustainable energy experience with hands-on expertise in C&I and residential energy storage, focused on new energy sector expansion.



**Stephen**  
**Country Manager - France**

Experienced in the French market with strong communication, negotiation, and business development skills.



**Schumann**  
**Technical Support - France**

Professional technical support engineer with a solid engineering background, providing technical support and troubleshooting for energy storage systems.

02

Microinverter Products >>>

# TSUN Microinverter Products Launch Plan

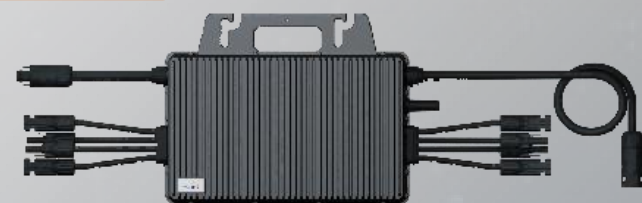


## MX Series



**1 in 1**

MX400/MX450/MX500



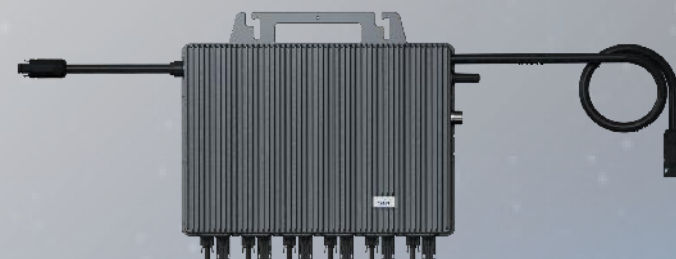
**4 in 1**

MS1600/MS1800/MS2000/MX2250



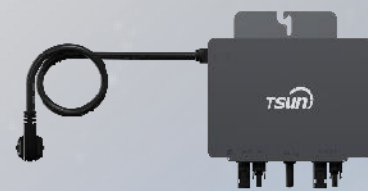
**2 in 1**

MX800/MX900/MX1000



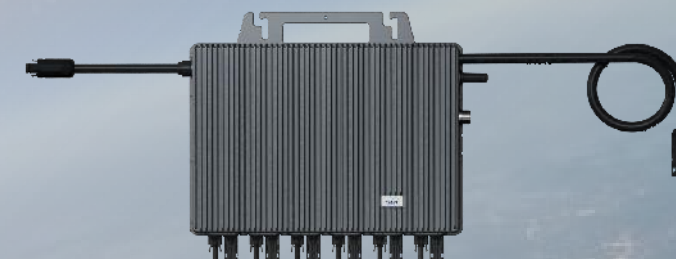
**6 in 1 (Single-phase)**

MX2400D/MX2500D/MX2700D/  
MX3000D/MX3300D



**2 in 1**

MX800Lite



**6 in 1 (Three-phase)**

MX2400D-T/MX2500D-T/MX2700D-T/  
MX3000D-T/MX3300D-T

\*Compatible with **Regular PV Modules**

## MG Series



**1 in 1**

MG700/MG750/MG800



**2 in 1**

MG1400/MG1500/MG1600



**4 in 1**

MG2800/MG3000/MG3200

\*Compatible with **High-Power PV Modules (700W+)**

## ML Series



ML500

\*Pre-Assembled Microinverter, **Seamless AC Module**

Series	Power	2025 Q3	2025 Q4	2026 Q1	2026 Q2	2026 Q3
MX Series	300W - 3300W					
MG Series	700W - 3200W					
ML Series	500W					

# Key Differences at a Glance

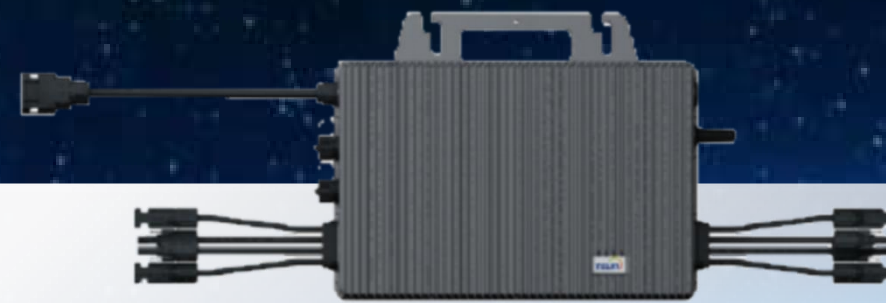
## MX Series



- Fewer components for a streamlined power stage
- High integration enabling compact system design
- Flyback topology for simplified design and stable operation

Topology: **Flyback**  
Efficiency: **95%**

## MG Series



- 20A Max MPPT Input Current
- 800W Single-Module Output, ideal for large PV panels
- LLC Topology for superior conversion efficiency

Topology: **LLC**  
Efficiency: **96%**

## ML Series



- High-Frequency Isolated Design, up to 1.2 MHz
- Slim Form Factor, maximized power density
- Clip-on Installation, zero hassle
- Borderline Integrated Design, future-ready

Topology: **High-Frequency**  
Efficiency: **97%**

# Microinverter: High-Power, Efficient, and Reliable



## Diverse Wiring Methods

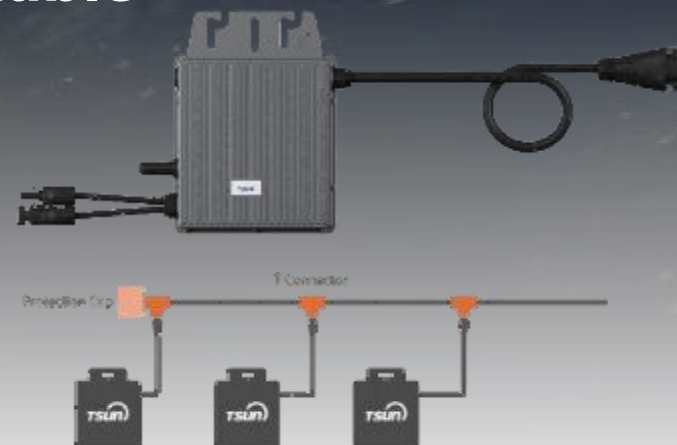
### Balcony Wiring



### Daisy Chain Wiring



### Trunk cable



## 3 Monitoring Solutions



Wi-Fi



4G

**RS485+DTU**

WiFi / RJ45 / 4G

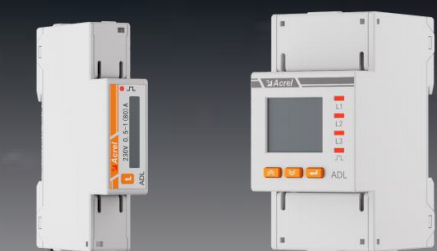
## Zero Export Solutions



Wi-Fi / Wi-Fi Mesh



Sub-1G



RS485

03

ESK Products >>>

# 1. Easy Solar kit (Plug & Play Solar System)

Effortless solar solutions designed for convenience and efficiency.

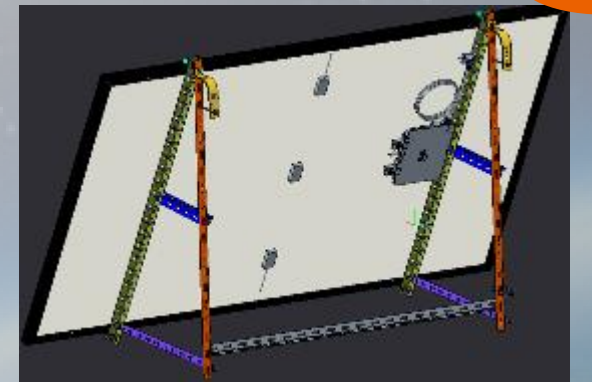


## Universal Solutions for All Scenarios

**ESK Universal**  
with Aluminum support



**ESK Universal**  
with Zinc-magnesium-  
aluminum support



**Extremely  
cost-effective!**

## Flat Ground Solar Solutions

**ESK Pop-up (Pre-Assembly)**



## Balcony Solar Solutions

**ESK Balcony Air Vertical**



**ESK Balcony Vertical**



**ESK Balcony Angled**



**All our ESK  
solutions are now  
ready for sale!**

04

Energy Storage Products >>>

# TSUN Storage Products Launch Plan



**MSU2000**  
**MAU2000**

+  
B2000

2025 Q3

**DCU2000Lite**

+  
DB2000Lite

2025 Q4

**MH2000**

+  
B2000Lite  
B4000Lite  
DB2000Lite

**MSU4000Lite**  
**MAU4000Lite**

+  
B2000Lite  
B4000Lite

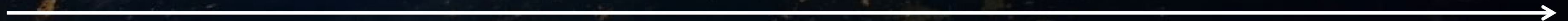
2026 Q1

**MAU5000**

**MAU5000Lite**

+  
B5000Lite

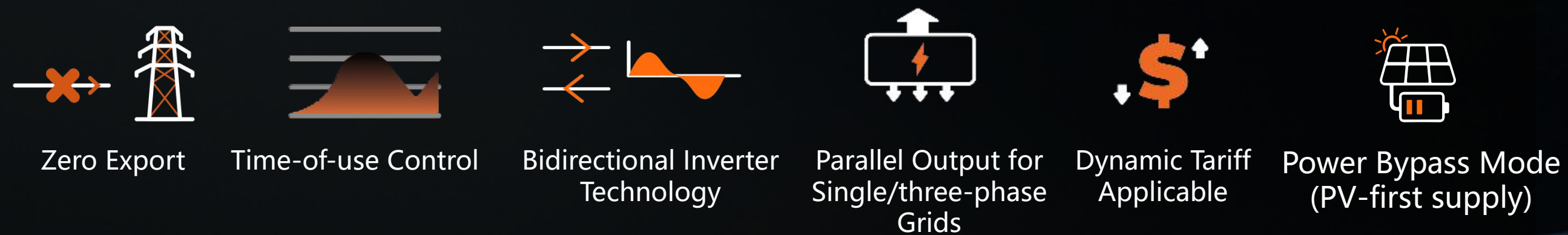
2026 Q2



# 1. Micro Storage Unit (MSU2000)

## SolarTrunk

Integrated **PV input and energy storage** in one system, enabling next-generation solar applications. **1C battery** design delivers fast charge/discharge and high energy responsiveness.



### MSU2000

#### Solution

PV+Hybrid Storage  
20Ah cell, 6000 cycles

#### In/Output

4 PV Input, Up to 2.8kW  
On-grid 2kW, Off-grid 2kW

#### Capacity

2kWh per unit, Stackable 5 units, Up to 10kWh

#### Parallel Solution

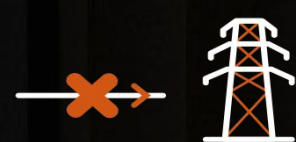
Single-phase Max 4 units, Up to 8kW, 40kWh  
Three-phase Max 2 units each phase  
Total 6 units together, Up to 12kW, 60kWh



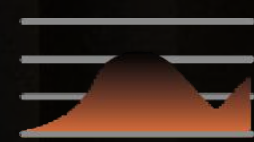
## 2. Micro AC Coupled Unit (MAU2000)

### PowerTrunk

Pure **AC-coupled energy storage** designed for seamless retrofit of existing grid-connected PV systems and deep integration with microinverters. **1C battery** design enables fast charge/discharge and high energy responsiveness.



Zero Export



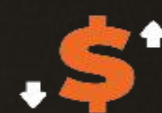
Time-of-use Control



Bidirectional  
Inverter Technology



Parallel Output for  
Single/three-phase  
Grids



Dynamic Tariff  
Applicable

MAU2000

**Solution**

AC Storage  
20Ah cell, 6000 cycles

**In/Output**

On-grid 2kW, Off-grid 2kW

**Capacity**

2kWh per unit, Stackable 5 units, Up to 10kWh

**Parallel Solution**

Single-phase Max 4 units, Up to 8kW, 40kWh  
Three-phase Max 2 units each phase  
Total 6 units together, Up to 12kW, 60kWh



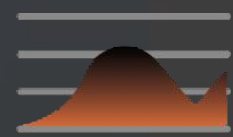
# 3. DC Coupled Unit (DCU2000Lite)

## SolarCan

Integrated **PV input and storage** design for seamless retrofit of existing grid-connected systems and microinverter-based PV + storage synergy. **314Ah high-cycle cells** with Battery Optimizer enable mixed new/existing battery use, ensuring higher durability, safety, and system compatibility.



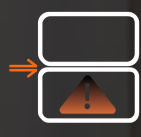
Zero Export



Time-of-use Control



Battery Optimizer



Supports Black Start via PV



Power Bypass Mode (PV-first supply)

DCU 2000Lite

### Solution

PV+DC storage  
314Ah cell, 10,000 cycles  
Battery Optimizer

### In/Output

4 PV Input, Up to 2.4kW  
Output DC 800W

### Capacity

2kWh per unit, Stackable 5 units,  
Up to 10kWh

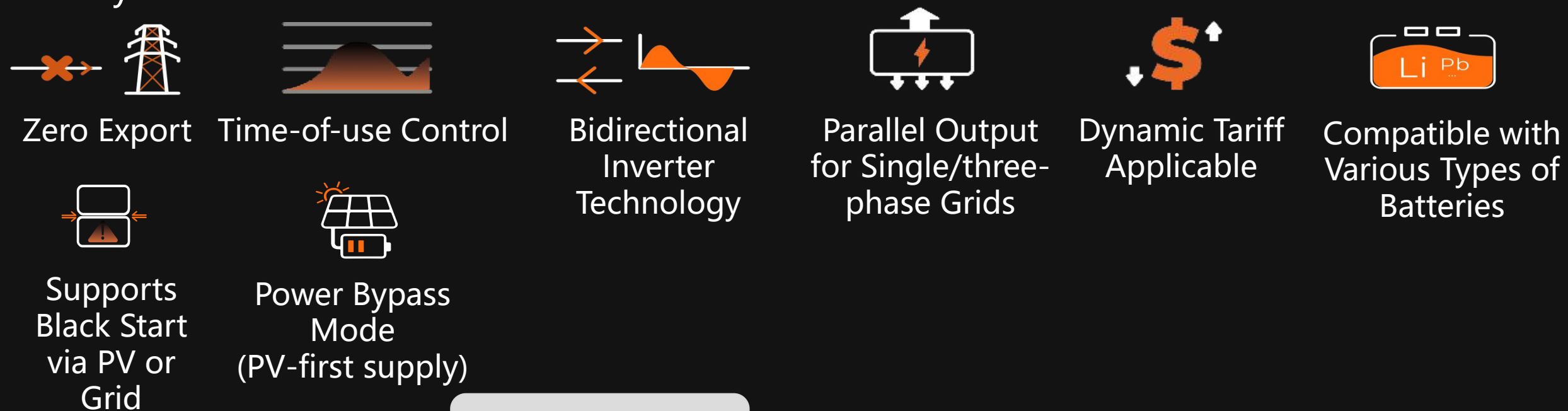


- **IP65 outdoor design**
- **Operating temperature from -20°C to 55°C**

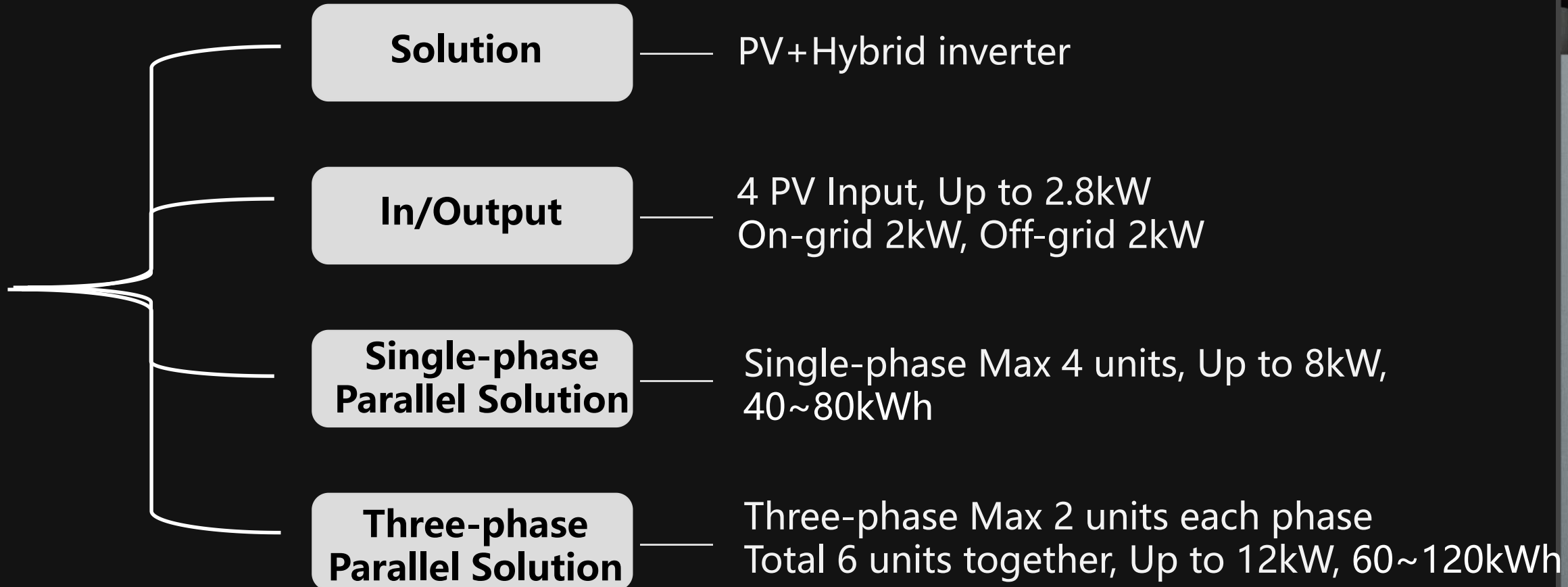
# 4. Hybrid Microinverter(MH2000)

## MH2000

The Hybrid Microinverter is the core of **plug-and-play hybrid storage systems**, integrating on-grid, off-grid, and energy storage functions in one unit. Installed between PV modules and the battery, it **stores surplus solar energy** and **releases it** on demand to optimize system efficiency.



## MH2000

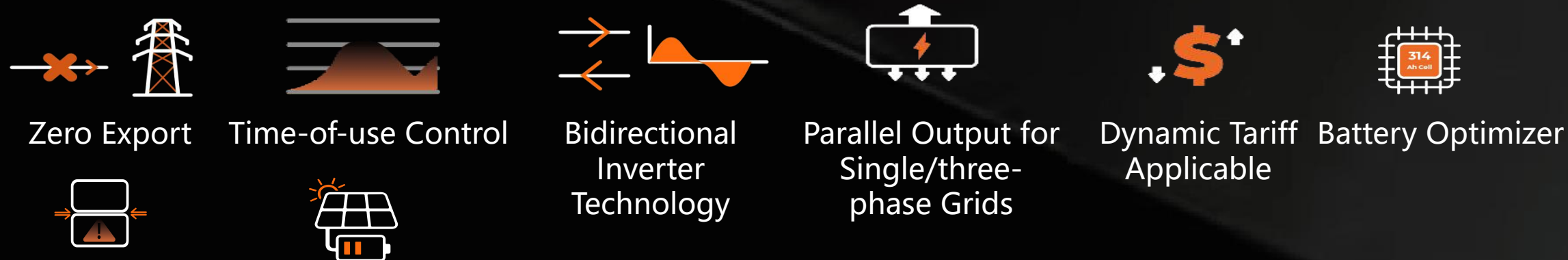


- **Solution with TSUN batteries**  
Hybrid Microinverter +  
B2000lite  
B4000lite  
DB2000lite  
With 314Ah, 10,000 cycles cell
- **IP65 outdoor design**
- **Operating temperature from -40°C to 65°C**

# 5. Micro Storage Unit (MSU4000Lite)

## SolarTrunk

Integrated **PV input and energy storage** in one system, designed for flexible system upgrades and scalable applications. **314Ah high-cycle cells** with a stackable architecture enable long lifespan and expandable capacity.



**MSU4000 Lite**

<b>Solution</b>	PV+ Hybrid Storage 314Ah cell, 10,000 cycles Battery Optimizer
<b>In/Output</b>	4 PV Input, up to 2.8kW On-grid 2.5kW, Off-grid 2.5kW
<b>Capacity</b>	4kWh per unit, Stackable 5 units, Up to 20kWh
<b>Parallel Solution</b>	Single-phase Max 4 units, Up to 10kW, 80kWh Three-phase Max 2 units each phase Total 6 units together, Up to 15kW, 120kWh



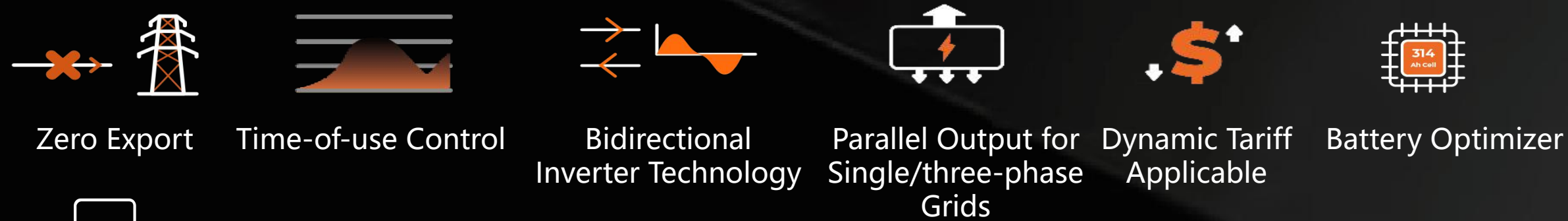
- **IP65 outdoor design**
- **Operating temperature from -20°C to 55°C**

# 6. Micro AC Coupled Unit (MAU4000Lite)



## PowerTrunk

Pure **AC-coupled energy storage** designed for seamless retrofit of existing PV systems and microinverter-based integration. **314Ah high-cycle cells** with a stackable architecture enable long lifespan and expandable capacity.



  
Supports Black Start via Grid

### MAU4000 Lite

<b>Solution</b>	AC Storage 314Ah cell, 10,000 cycles Battery Optimizer
<b>In/Output</b>	On-grid 2.0kW, Off-grid 2.5kW
<b>Capacity</b>	4kWh per unit, Stackable 5 units, Up to 20kWh
<b>Parallel Solution</b>	Single-phase Max 4 units, Up to 8kW, 80kWh Three-phase Max 2 units each phase Total 6 units together, Up to 12kW, 120kWh

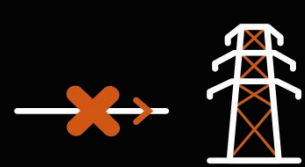


- **IP65 outdoor design**
- **Operating temperature from -20°C to 55°C**

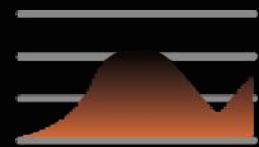
# 7. Micro AC Coupled Unit (MAU5000)

## PowerTrunk

Pure **AC-coupled energy storage** designed for seamless retrofit of existing grid-connected PV systems and deep integration with microinverters. With **grid-forming capability** enables reliable backup power and seamless operation with grid-tied inverters.



Zero Export



Time-of-use Control



Bidirectional Inverter Technology



Parallel Output for Single/three-phase Grids



Dynamic Tariff Applicable



Grid-forming Capability (the off-grid port paired with grid-tie inverter)

**MAU5000**

**Solution**

AC Storage  
100Ah cell, 6,000 cycles

**In/Output**

On-grid 2.5kW, Off-grid 2.5kW

**Capacity**

5kWh per unit, Non-stackable design

**Parallel Solution**

Single-phase Max 4 units, Up to 10kW, 20kWh  
Three-phase Max 2 units each phase  
Total 6 units together, Up to 15kW, 30kWh



- **IP65** outdoor design
- Operating temperature from **-20°C to 55°C**

# 8. Micro AC Coupled Unit (MAU5000Lite)

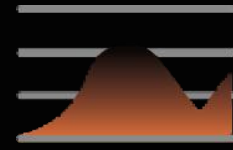
## PowerTrunk

● Plug & Play Version (for End Users)

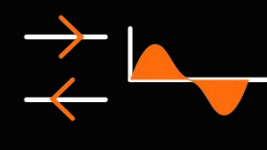
Pure **AC-coupled energy storage** designed for seamless retrofit of existing grid-connected PV systems and deep integration with microinverters. Available in both a **3.6kW Plug & Play** version for easy DIY installation and a **6kW Residential** version for high-power professional deployment.



Zero Export



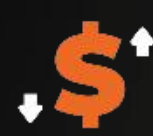
Time-of-use Control



Bidirectional Inverter Technology



Parallel Output for Single/three-phase Grids



Dynamic Tariff Applicable



Grid-forming Capability (the off-grid port paired with grid-tie inverter)



Battery Optimizer



Supports Black Start via Grid

**Solution**

AC Storage  
314Ah cell, 10,000 cycles  
Battery Optimizer

**In/Output**

On-grid 800/2500/3000/3600W  
Off-grid 3600W

**Capacity**

5kWh per unit, Stackable 5 units, Up to 25kWh

**Parallel Solution**

Single-phase Max 4 units, Up to 14.4kW, 100kWh  
Three-phase Max 2 units each phase  
Total 6 units together, Up to 21.6kW, 150kWh

**MAU5000 Lite**



On-grid AC port: 0.8–3.6 kW, pre-wired 2 m plug-and-play AC cable  
Off-grid AC outlet: up to 3.6 kW



Operating temperature from **-20°C to 55°C**

# 8. Micro AC Coupled Unit (MAU5000Lite)

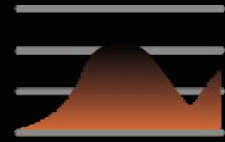
**PowerTrunk**

● Pro Version (for Installers)

Pure **AC-coupled energy storage** designed for seamless retrofit of existing grid-connected PV systems and deep integration with microinverters. Available in both a **3.6kW Plug & Play** version for easy DIY installation and a **6kW Residential** version for high-power professional deployment.



Zero Export



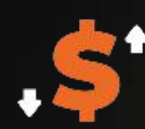
Time-of-use Control



Bidirectional Inverter Technology



Parallel Output for Single/three-phase Grids



Dynamic Tariff Applicable



Grid-forming Capability (the off-grid port paired with grid-tie inverter)



Battery Optimizer



Supports Black Start via Grid

**MAU5000 Lite**

<b>Solution</b>	AC Storage, 314Ah cell, 10,000 cycles Battery Optimizer
<b>In/Output</b>	On-grid 800/2500/3000/3600W/ 4000/4600/5000/6000W Off-grid 6000W
<b>Capacity</b>	5kWh per unit, Stackable 5 units, Up to 25kWh
<b>Parallel Solution</b>	Single-phase Max 4 units, Up to 24kW, 100kWh Three-phase Max 2 units each phase Total 6 units together, Up to 36kW, 150kWh



On-grid AC connector: up to 6 kW  
Off-grid AC connector: up to 6 kW

- **IP65** outdoor design
- Operating temperature from **-20°C to 55°C**

Type	Model	PV Input	On-grid Output Power	Battery Capacity	Off-grid Output Power
<b>SolarTrunk</b> (Hybrid Storage Unit)	MSU2000	4 PV Input, Up to 2.8kW	2kW	2~10 kWh	2kW
	<b>MSU4000Lite</b>	4 PV Input, Up to 2.8kW	2.5kW	4-20 kWh	2.5kW
<b>PowerTrunk</b> (AC Coupled Unit)	MAU2000	/	2kW	2~10 kWh	2kW
	MAU5000	/	2.5kW	5 kWh	2.5kW
	<b>MAU5000Lite</b> (Plug&Play)	/	800W/2.5/3/3.6kW	5~25 kWh	3.6kW
	<b>MAU5000Lite</b> (Pro)	/	800W/2.5/3/3.6/4/4.6/5/6kW	5~25 kWh	6kW
	<b>MAU4000Lite</b>	/	2kW	4-20 kWh	2.5kW
<b>SolarCan</b> (DC Coupled Unit)	<b>DCU2000Lite</b>	4 PV Input, Up to 2.4kW	800W	2~10 kWh	800W
<b>MH</b> (Hybrid Microinverter)	MH2000	4 PV Input, Up to 2.8kW	2kW	/	2kW

**Lite version means:**

- 314Ah cell, 10,000 cycles
- Battery optimizer
- Active balancing
- Mixed new/existing battery use

**Extremely affordable**

05

| **TSUN Policy for Partners** >>>

## ● Distribution Policy



TSUN works exclusively with a limited number of partners, generally favoring a single partner per region.

## ● Marketing Campaign Support



TSUN actively supports its distributors in their marketing efforts, providing promotional materials, design assistance and cost participation for roadshows, events and advertising.

- **Logistics & Supply Chain Support**

If distributors provide a confirmed forecast, TSUN can produce and ship them ahead of time to our warehouses in Europe. This approach reduces delivery times and offers distributors greater flexibility in purchasing goods.



## ● Financial Support and Payment Flexibility

TSUN supports its clients throughout the credit insurance application process (SINOSURE), using its expertise to maximize the amount granted.

### Facilitated access to credit

Comprehensive assistance to optimize coverage acquisition.

### Various payment options

Once credit insurance is approved, TSUN offers flexible payment terms, with the option to pay:


with a down payment +

Credit Sale (Open Account),  
30 or 60 days.

### Cash flow optimization

Reduce financial pressure, strengthen liquidity management, and ensure smooth business development.

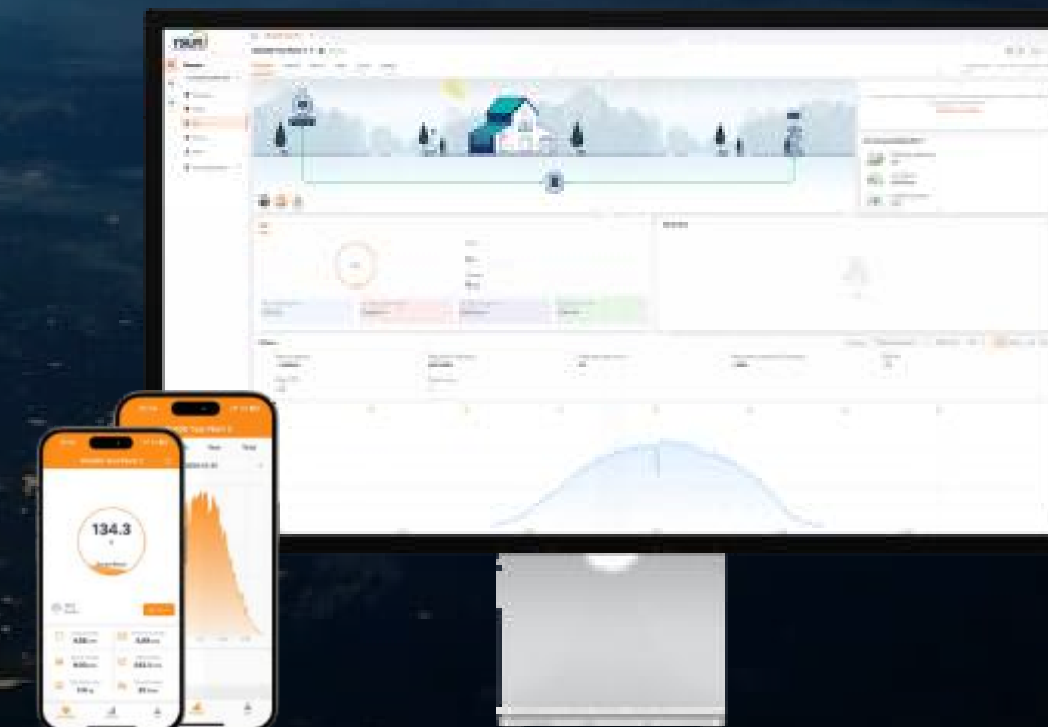
## Product Customization

 For our distributors, TSUN offers in-depth customization to meet specific requirements.



## Monitoring App Customization

 Open API – Allows distributors to customize their own software by directly integrating system performance data.



# Localized and Responsive After-Sales Service



## Technical Support Network

### DACH

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# Localized and Responsive After-Sales Service



## Local team

Online and offline training programs  
for sales and technical teams



## Online Support 24h/24

Assistance available at all times



## Authorized Service Partner

Official TSUN certification for  
authorized distributors



## Exclusive Service for Key Accounts

Assignment of a dedicated technical expert  
to provide direct and personalized after-  
sales support

# Microinverter



# Easy Solar Kit



# Storage System



**THANKS!**