TSUN
MORE SAFETY MORE POWER

SOLARTRUNK / MICRO STORAGE SYSTEM

ONE SYSTEM READY TO GROW



15 kW
Three-phase parallel output, up to 6 units

5,000 W
PV input with 4 independent MPPTs

10,000+
Cycles with 314Ah LiFePO4 cells

4-20 kWh
Flexible capacity in one system

TSUNESS Co., Ltd
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10000 Cycles

314 Ah Cell



*Charge and discharge once a day, under ideal temperature and humidity conditions.

First Battery Optimizer in Balcony Storage

Support Mix Use of New and Existing Batteries

10% More Capacity



Max Savings

€ 538 / year



*Calculated based on one 4kWh MSU4000Lite unit.

Compatible with

Multiple Smart Meter

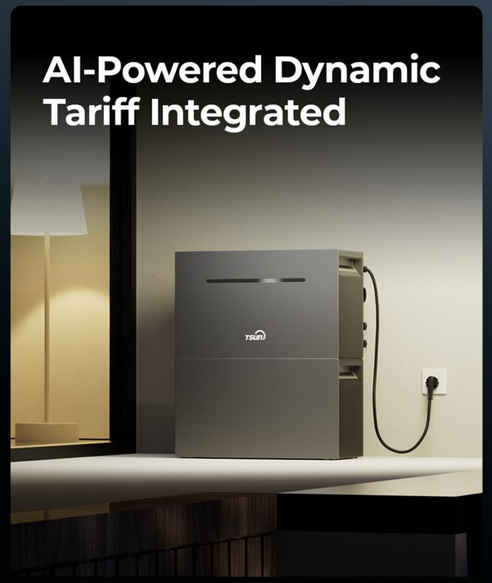


Plug & Play

4-20 kWh



AI-Powered Dynamic Tariff Integrated



Max **4** MPPT

2800 W Input



Self-heating

Suitable for low temperature

-20 - +55 °C



HARVEST, STORE AND POWER

WITH FEWER BOXES IN BETWEEN

Four independent MPPTs accept up to 5,000W of PV. The system prioritizes solar power for loads, stores surplus automatically and can recover from zero charge using PV or grid power.

BYPASS POWER FUNCTION
PV feeds loads first; unused energy is captured in battery storage.

BLACK START CAPABLE
Restart the system from PV or grid pow
when the battery reaches zero.



4 MPPTS, 18A PER STRING
Designed for modern, high-power modules up to 700W.

DIRECT ENERGY FLOW

START SMALL. SCALE FREELY.

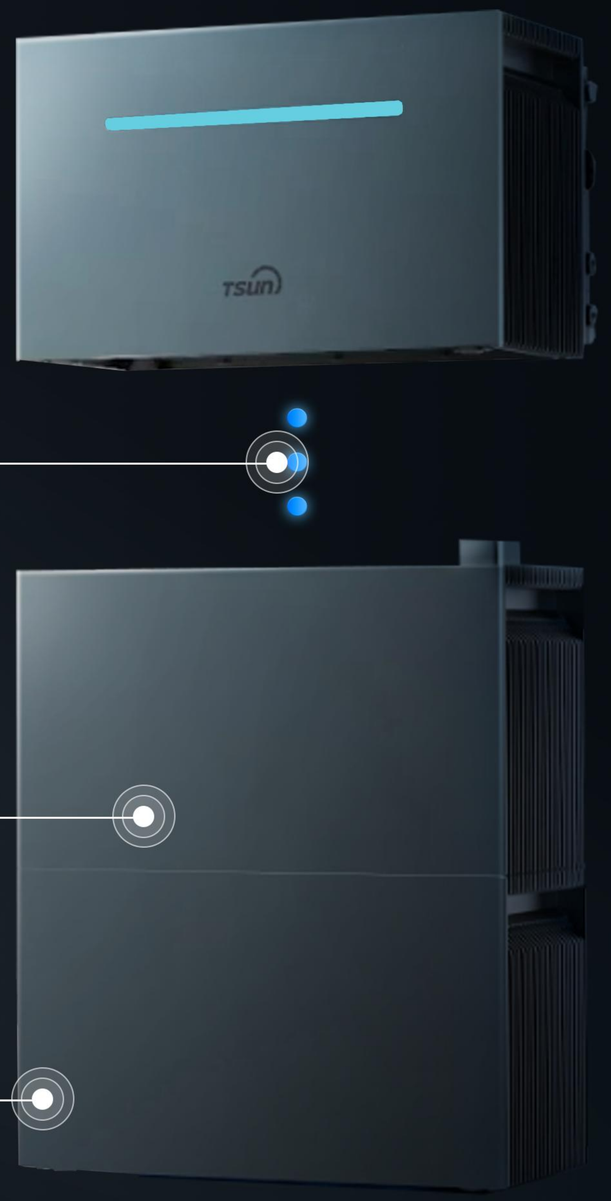
FLEXIBLE CAPACITY READY FOR THE NEXT CHAPTER

Build from 4kWh to 20kWh by stacking up to five packs. B2000Elite and B4000Elite work together, so each system can match the homeowner's real energy demand.

5 PACKS
Maximum per MSU system

20 kWh
20 kWh Maximum single-system capacity

B2000ELITE / B4000ELITE
2 kWh / 4 kWh expansion pack



PLUG & PLAY, INDOORS OR OUT

MORE POWER LESS DISRUPTION

With an integrated die-cast body, intuitive LED status bar and a safe low-voltage system under 60V, SolarTrunk brings premium storage to balconies, homes and new residential PV installations.



INTELLIGENT ENERGY MANAGEMENT

ENERGY THAT WORKS AROUND YOUR TARIFF - AND YOUR LIFE

Choose the operating mode that fits the household today. The platform is designed for self-consumption, time-of-use shifting, dynamic tariff response and future VPP dispatch.



SELF-CONSUMPTION

Direct more locally generated solar energy to the home and reduce unnecessary grid draw.

TOU SCHEDULING

Charge when electricity is cheaper and release energy when household demand or tariffs rise.

DYNAMIC TARIFF & VPP READY

Respond intelligently to changing energy prices and support dispatch-oriented energy services.

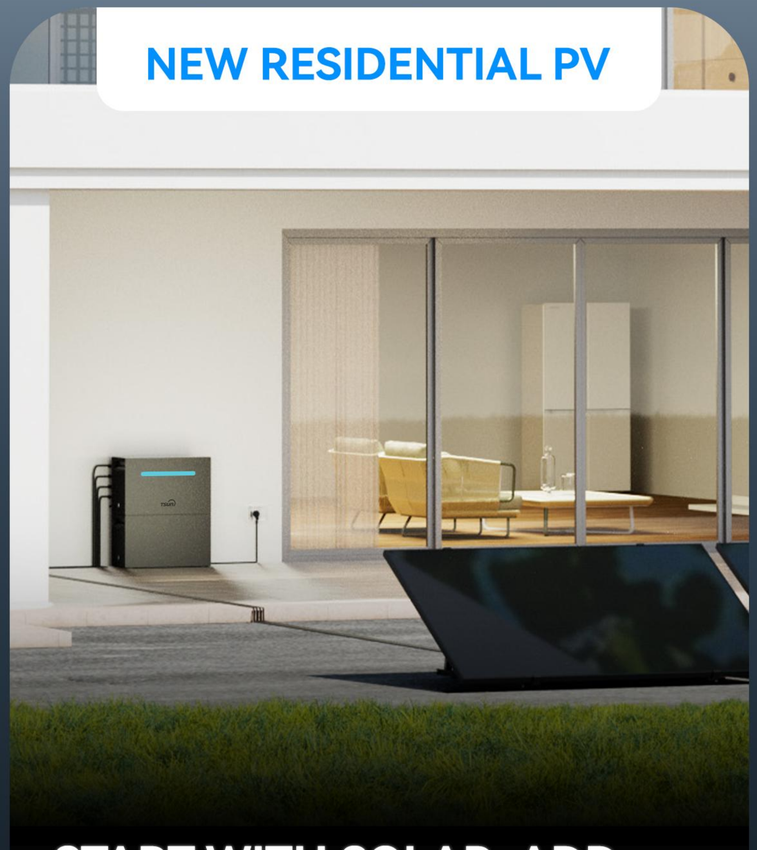
BALCONY SOLAR



TURN A BALCONY INTO AN ENERGY ASSET.

Plug & Play installation, low-voltage safety and smart anti-backflow control for space-conscious urban households.

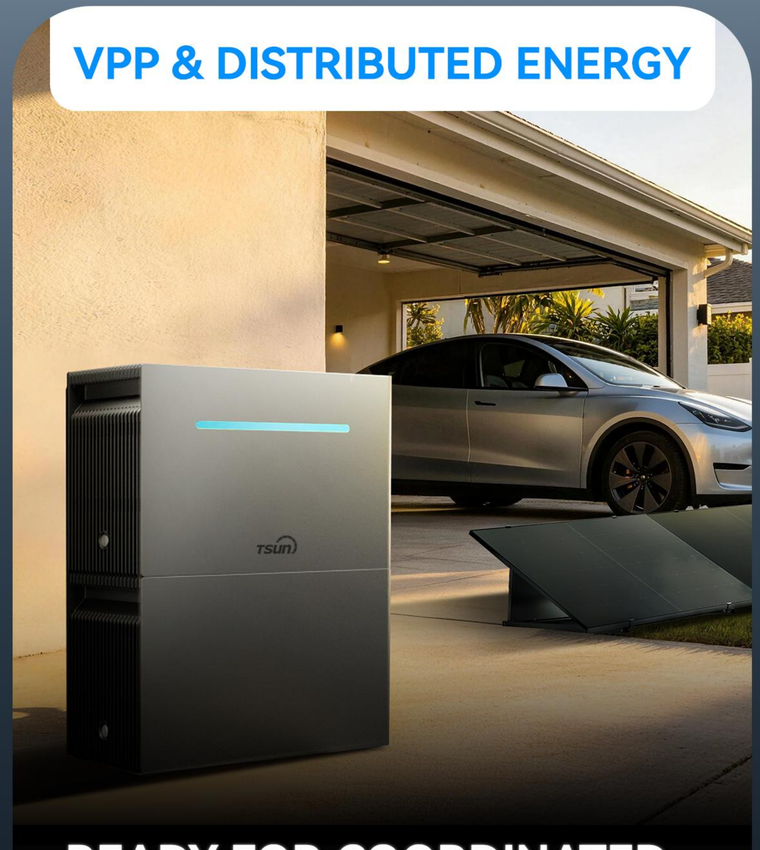
NEW RESIDENTIAL PV



START WITH SOLAR. ADD RESILIENCE FROM DAY ONE.

Direct DC charging and modular storage simplify new installations while keeping future expansion open.

VPP & DISTRIBUTED ENERGY



READY FOR COORDINATED ENERGY.

Smart scheduling and parallel architecture support flexible deployment in dispatch-oriented energy scenarios.

ONE FAMILY
A CLEARER PATH TO MORE PROJECTS

The same product platform is designed to make specification, installation and capacity upgrades easier for distributors and installers.

LESS SKU FRICTION
B2000Elite and B4000Elite can be mixed in one system.

UPGRADE-FRIENDLY
Battery Optimizer supports new and existing packs together.

FROM 1 TO 6 SYSTEMS
Parallel operation helps the project scale beyond a single home.

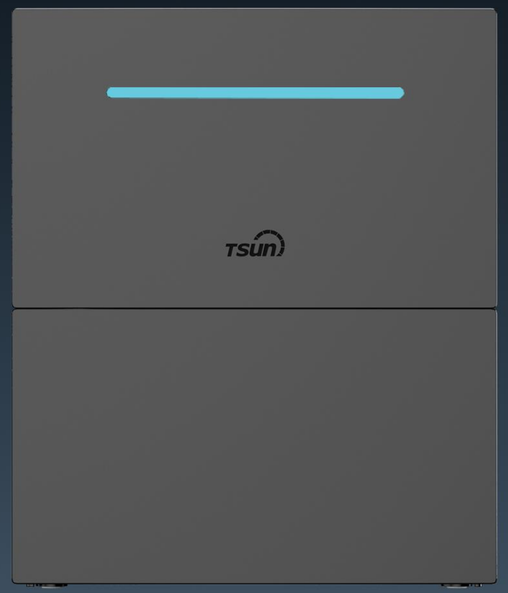
CONFIDENT COMMISSIONING
Intuitive interface, LED status bar and dual-band Wi-Fi simplify daily use.



BUILT FOR THE CHANNEL

6× Three-phase parallel systems
Up to 15kW output / 24-120kWh capacity

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TSOL-MSU4000ELITE

DOWNLOAD THE DATASHEET

PV Input (PV)

Max. PV Input Power (W)	5000/2800[1]
Max. Input Voltage per Input (V)	60
Operating Voltage Range per Input (V)	16 ~ 60
Quantity of PV Module	8~12/4[1]

Battery (DC)

Battery Type	$LiFePO_4$
Battery Capacity (kWh)	4
Max. System Capacity (kWh)	20
Nominal Voltage (V)	51.2
Life Cycle	10,000[2]

AC Port (On-grid)

Max. AC Output Power (W)	800[3] / 2500
Max. AC Input Power (W)	2500
Nominal AC Voltage (V)	220 / 230 / 240
Nominal AC Frequency (Hz)	50 / 60

AC Port (Off-grid)

Max. AC Output Power (W)	2500
Nominal AC Voltage (V)	220 / 230 / 240
Nominal AC Frequency (Hz)	50 / 60
Switch Time (ms)	≤10

General Data

Dimensions (W × H × D mm)	493 × 305 × 295
Weight (kg)	48
Communication Mode	WiFi (Bluetooth) + RS485
Protection Degree (IP Rating)	IP65
Cooling Method	Natural Convection
Operating Temperature Range	-20 ~ 55°C
Relative Humidity	0 ~ 95%, Non condensing
Max. Operating Altitude (m)	2000
Protection Level	I
Overvoltage Category	II (DC); III(AC)

[1]Upgraded from Aug. 15, 2026: Max. 5kW PV input, supports 8~12 PV modules.
[2]Designed for a lifespan of 10,000 cycles at 25 °C ambient temperature.
[3]According to the legal requirements of certain countries, output load limits are implemented to 800W.

TECHNICAL HIGHLIGHTS

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BUILD A MORE FLEXIBLE ENERGY FUTURE

Explore SolarTrunk MSU4000Elite for your next residential, balcony or distributed-energy project.

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