

SolarTrunk

Micro Hybrid Storage Unit

TSOL-MSU4000Elite



Zero Export



Time-of-use Control



Bidirectional Inverter Technology



Parallel Output for Single/Three-phase Grids



Dual-frequency WiFi communication(2.4G & 5G)



Dynamic Tariff Applicable



Battery Optimizer



Supports Black Start via PV or Grid



Power Bypass Mode (PV-first supply)

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Technical Data

Model	TSOL-MSU4000Elite
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 Data

Model	TSOL-B2000Elite	TSOL-B4000Elite
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Battery Specifications

Battery Type	LiFePO ₄	
Battery Capacity (kWh)	2	4
Nominal Voltage (V)	51.2	
Life Cycle	10,000 ^[1]	

General Data

Dimensions (W×H×D mm)	493 × 280 × 220	
Weight (kg)	26	35
Protection Degree (IP Rating)	IP65	
Cooling Method	Natural Convection Cooling	
Operating Temperature Range	-20 ~ 55°C	
Relative Humidity	0 ~ 95%, Non condensing	
Max. Operating Altitude (m)	2000	

[1] Designed for a lifespan of 10,000 cycles at 25 °C ambient temperature.

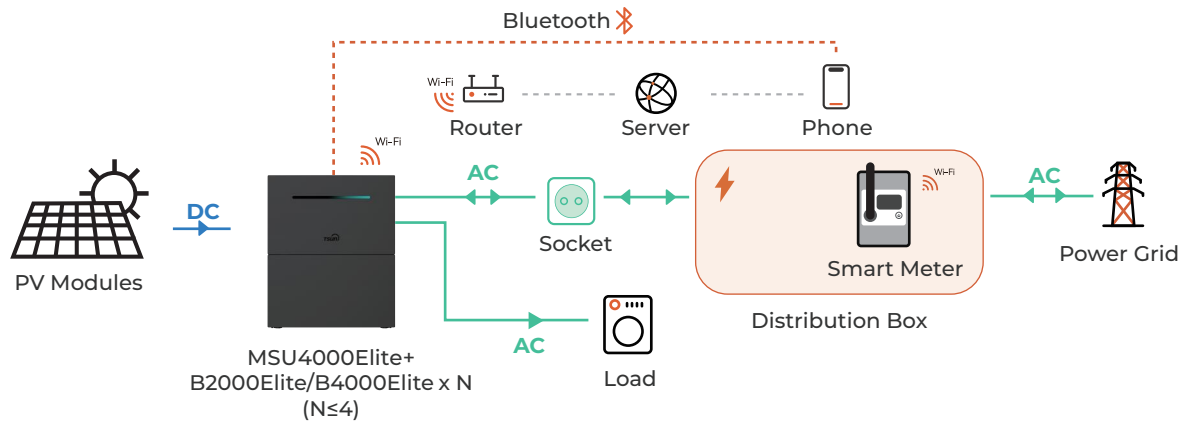
Related Products

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Smart Accessories

MORE SAFETY MORE POWER

System Diagram



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