

SolarTrunk

Micro Hybrid Storage Unit

TSOL-MSU2000Lite/MSU4000Lite



**TSOL-MSU2000/4000Lite
+B2000/4000Lite**



Zero Export



All-in-one Unit



Charge Battery from
Module and Grid



-20 °C to +55 °C
Working Temperature



Built-in WiFi, Bluetooth
APP Remote Monitoring



Battery Optimizer

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Technical Data

Model	TSOL-MSU2000Lite	TSOL-MSU4000Lite
PV Input (PV)		
Max. PV Input Power (W)	2800	
Max. Input Voltage per Input (V)	60	
Operating Voltage Range per Input (V)	16 ~ 60	
Quantity of PV Module	4	
Battery (DC)		
Battery Type	LiFePO ₄	
Battery Capacity (kWh)	2	4
Max. System Capacity (kWh)	10	20
Nominal Voltage (V)	51.2	
Life Cycle	10,000 ^[1]	
AC Port (On-grid)		
Max. AC Output Power (W)	800 ^[2] / 2500 ^[3]	
Max. AC Input Power (W)	2500 ^[4]	
Nominal AC Voltage (V)	220 / 230 / 240	
Nominal AC Frequency (Hz)	50 / 60	
AC Port (Off-grid)		
Max. AC Output Power (W)	2500 ^[3]	
Nominal AC Voltage (V)	220 / 230 / 240	
Nominal AC Frequency (Hz)	50 / 60	
Switch Time (ms)	≤10	
General Data		
Dimensions (W × H × D mm)	583 × 410 × 390	
Weight (kg)	30.5	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	2000	
Protection Level	I	
Overvoltage Category	II (DC); III(AC)	

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

[2] According to the legal requirements of certain countries, such as the German region and Belgium, output load limits are implemented to 800W.

[3] Maximum AC Output Power Description

	Working Condition	TSOL-MSU2000Lite	TSOL-MSU4000Lite
Required PV Input Power (W)	With expanded battery packs	≥500	≥500
	Without expanded battery packs	≥1300	
Total AC Output Power (W)	With/Without expanded battery packs	2500	

[4] The EPS load should be greater than or equal to 500W.

Technical Data

Model	TSOL-B2000Lite	TSOL-B4000Lite
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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

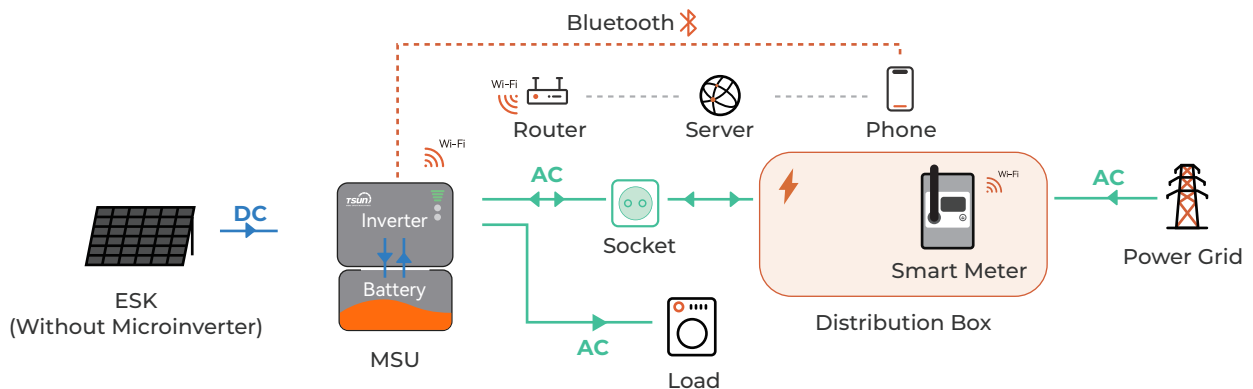
Dimensions (W×H×D mm)	583 × 333 × 375	
Weight (kg)	26	35
Protection Degree (IP Rating)	IP65	
Cooling Method	Natural Convection Cooling	
Operating Temperature Range	-20 ~ 55°C	
Relative Humidity	0 ~ 95%, Non condensing	
Max. Operating Altitude(m)	2000	

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

Related Products



Diagram



MORE SAFETY MORE POWER



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