

SolarTrunk

Micro Hybrid Storage Unit
TSOL-MSU2000/MSU2000DE



TSOL-MSU2000+B2000

CE VDE 4105 EN 50549-10 UN38.3



Zero Export



-20 °C to +55 °C
Working Temperature



All-in-one Unit



Built-in WiFi, Bluetooth
APP Remote Monitoring



Charge Battery from
Module and Grid

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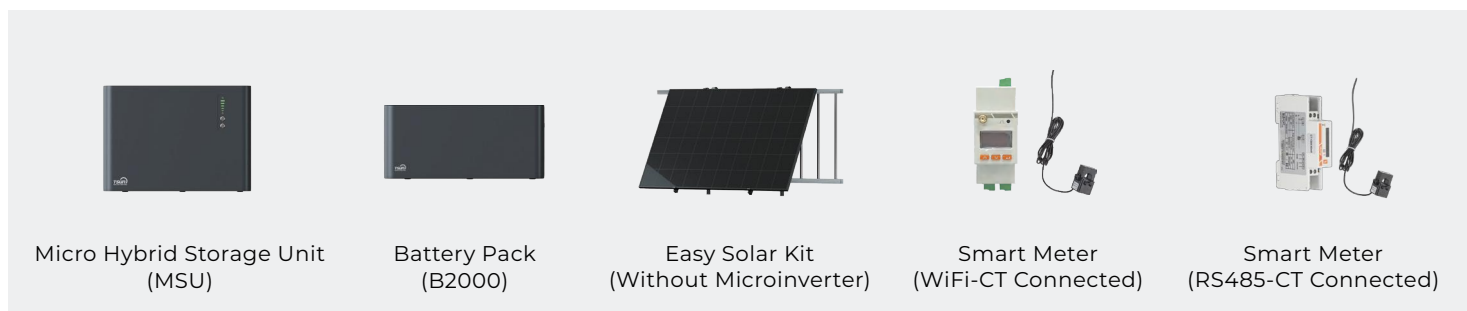
Technical Data

| Model | TSOL-MSU2000 | TSOL-MSU2000DE |
|--|--|----------------|
| PV Input(PV) | | |
| Recommended Module Power (Wp) | 400 – 700+ | |
| Quantity of PV Module | 1 to 4 | |
| Max. PV Input Power (W) | 2800+ | |
| Start up Voltage @Rated condition (V) | 22 | |
| Operating Voltage Range per Input (V) | 16 – 60 | |
| MPPT Voltage Range @ Nominal Power (V) | 27.7 – 54 | |
| Max. Input Voltage per Input (V) | 60 | |
| Nominal Input Voltage (V) | 42 | |
| Short Circuit Current per Input (A) | 25 | |
| Max. Input Current per Input (A) | 18 | |
| Quantity of MPPTs | 4 | |
| Battery (DC) | | |
| Battery Capacity (Wh) | 2048 | |
| Battery Type | LiFePO ₄ | |
| Nominal Voltage (V) | 51.2 | |
| Operating Voltage Range (V) | 43.2 – 58.4 | |
| Max. Discharge Power (W) | 2000 | |
| Max. Charge Power (W) | 2000 | |
| Max. System Capacity (kWh) | 10.24 (1 MSU + 4 x Stackable Battery) | |
| AC Port (On-grid) | | |
| Max. AC Output Power (W) | 2000 | 800 |
| Max. AC Output Current (A) | 10 | 4 |
| Max. AC Input Power (W) | 2000 | |
| Max. AC Input Current (A) | 11 | |
| Nominal AC Voltage (V) | 220 / 230 / 240, L / N / PE | |
| Nominal AC Frequency (Hz) | 50 / 60 | |
| Power Factor | > 0.99 default 0.8 leading ... 0.8 lagging | |
| THDI | ≤ 3 %@100 % Load | |
| AC Port (Off-grid) (Optional) | | |
| Max. AC Output Power (W) | 2000 | |
| Max. AC Output Current (A) | 10 | |
| Nominal AC Voltage (V) | 220 / 230 / 240, L / N / PE | |
| Nominal AC Frequency (Hz) | 50 / 60 | |
| Switch Time (ms) | < 20 | |

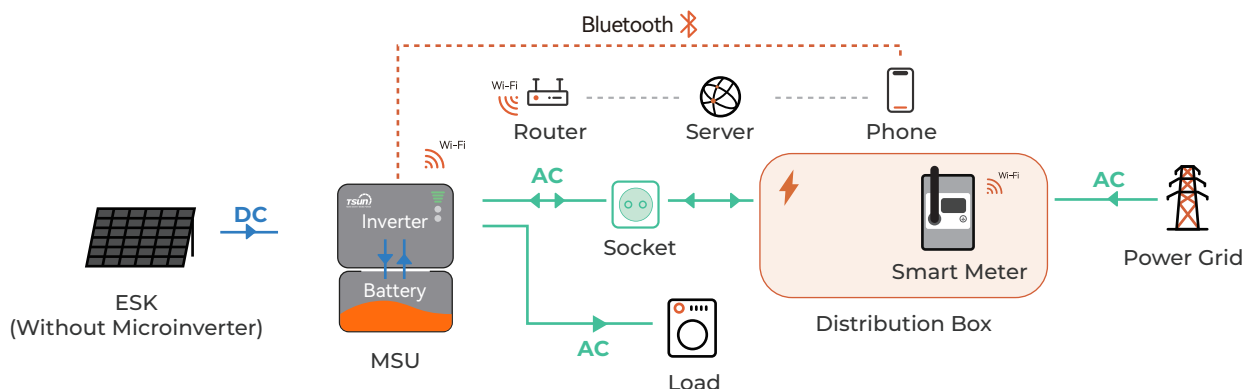
Technical Data

| Model | TSOL-MSU2000 | TSOL-MSU2000DE |
|--|---|----------------|
| Efficiency | | |
| Peak Inverter Efficiency | 97.0 % | |
| MPPT Efficiency | 99.9 % | |
| Battery Charge / Discharge Efficiency | 95 % / 95 % | |
| Consumption (Without Load) | < 25 W | |
| Self-consumption (Device Shutdown) | < 1 W | |
| Mechanical Data | | |
| Dimensions (W x H x D mm) | 455 x 325 x 280 (MSU) / 455 x 205 x 280 (B2000) | |
| Weight (kg) | 27 | |
| General Data | | |
| Communication | Server : WiFi (Bluetooth) / Battery: RS485 | |
| Extra Communication Ports | 2 x RS485 (Meter+Reserve) | |
| Ingress Protection | IP65 | |
| Cooling | Natural Convection | |
| Operating Ambient Temperature Range | -20 – +55 °C (Load shedding over 45 °C) | |
| Relative Humidity | 0 – 95 %, Non Condensing | |
| Max. Operating Altitude Without Derating (m) | 2000 | |
| Display | SOC Light | |
| Type of Isolation | Reinforced insulation | |
| Protection Class | I | |
| Overvoltage Category | PV II ; AC III | |

Related Products



Diagram



MORE SAFETY MORE POWER



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