

PowerTrunk Micro AC Coupled Unit

TSOL-MAU5000



All-in-one Unit



AC Bidirectional



Parallel Output for
Single/Three-phase Grids



Dynamic Tariff
Applicable



-20°C ~ 55°C Working
Temperature Range



Built-in WiFi, Bluetooth
APP Remote Monitoring



Coupled System of
Microinverter and Energy Storage



Grid-forming capability
enables seamless off-grid
microinverter operation

TSUNESS Co.,Ltd

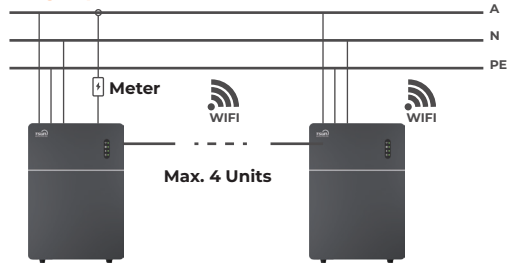
sales@tsun-ess.com www.tsun-ess.com +86-512-66186028

Technical Data

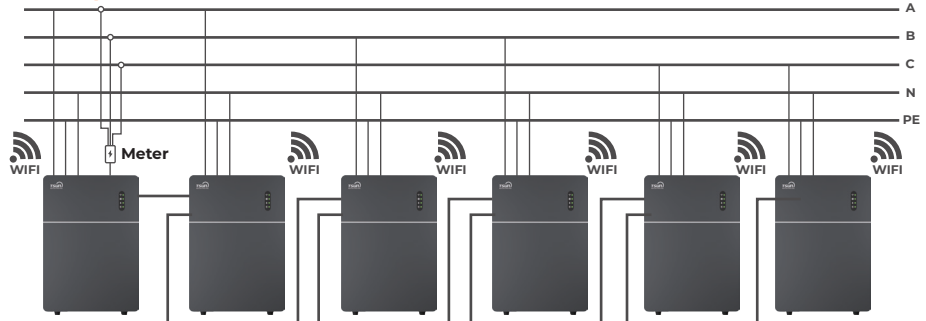
Model	TSOL-MAU5000
Battery (DC)	
Battery Type	LiFePO ₄
Battery Capacity	5020 Wh
Nominal Voltage	51.2 V
Life Cycle	6000
AC Port (On-grid)	
Max. AC Output Power	2500 W
Max. AC Input Power	2500 W
Nominal AC Voltage	220 / 230 / 240 V, L / N / PE
Nominal AC Frequency	50 / 60 Hz
AC Port (Off-grid)	
Max. AC Output Power	2500 W
Nominal AC Voltage	220 / 230 / 240 V, L / N / PE
Nominal AC Frequency	50 / 60 Hz
Switch Time	10 ms
General Data	
Dimensions (W × H × D mm)	484 × 707 × 168 mm
Weight	52 kg
Communication	WiFi (Bluetooth) + RS485
Ingress Protection	IP65
Cooling Method	Natural Convection
Operating Temperature Range	-20 ~ 55°C
Relative Humidity	0 ~ 95%, Non condensing
Max. Operating Altitude	2000 m
Protection Class	I
Overvoltage Category	DC II; AC III
Compatible Meter	Wi-Fi, RS485, P1

Parallel Connection

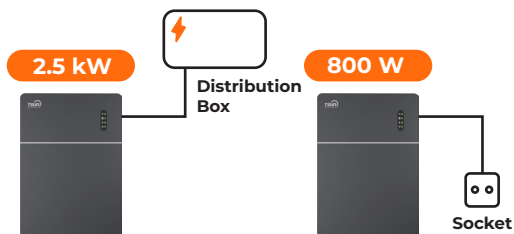
Single-phase



Three-phase



Both Plug & Play and Residential



Work Mode

- Self-use
- Time of Use
- Dynamic Tariff

For more information, visit / contact us at www.tsun-ess.com

© 2026 TSUNESS. All rights reserved. All specifications are subject to change without prior notice