

SolarTrunk

Micro Hybrid Storage Unit
TSOL-MSU2000/MSU2000DE



TSOL-MSU2000+B2000



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)	300 – 700+		
Quantity of PV Module	1 to 4		
Max. PV Input Power (W)	2150+		
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 (Wx 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

Micro Hybrid Storage Unit (MSU)

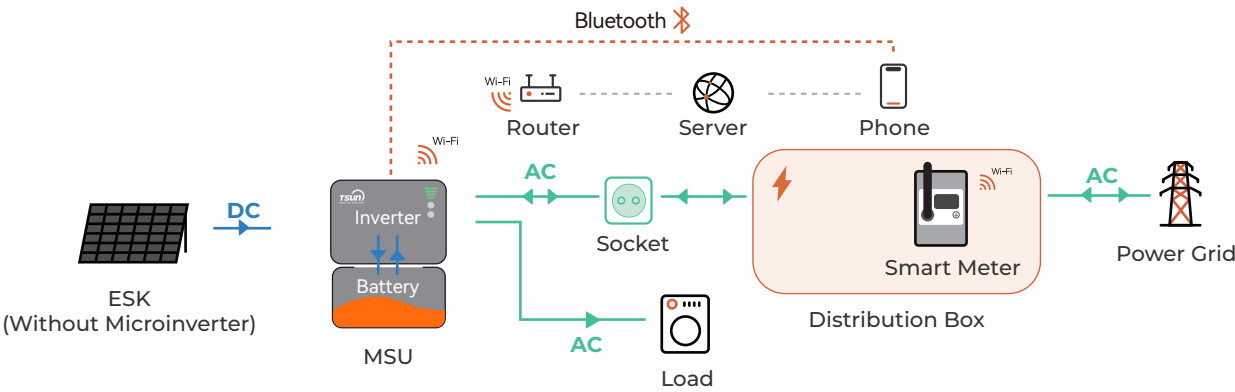
Battery Pack (B2000)

Easy Solar Kit (Without Microinverter)

Smart Meter (WiFi-CT Connected)

Smart Meter (RS485-CT Connected)

Diagram



MORE SAFETY MORE POWER



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