Micro Hybrid Storage Unit

SolarTrunk

TSOL-MSU2000/MSU2000DE

MORE SAFETY MORE POWER





TSOL-MSU2000+B2000

Zero Export

All-in-one Unit

Charge Battery from Module and Grid

55°C

-20°C

-20°C ~ +55°C
Working Temperature

Built-in WiFi, Bluetooth
APP Remote Monitoring

CE VDE 4105 EN 50549-10 UN38.3

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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)	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 * 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	

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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)	< 25W	
Self-consumption (Device Shutdown)	< 1W	
Mechanical Data		
Dimensions (W×H×D mm)	455×320×280(MSU) / 455x205x280(B2000)	
Net/Gross Weight	32/34.7 kg (Gen 2) 26.8/29.5 kg (Gen 3)	
General Data		
Communication	Server : WiFi (Bluetooth) / Battery: RS485	
Extra Communication Ports	2 * RS485(Dispatch+Meter) (Gen 2) / 3 * RS485(Dispatch+Meter+Parallel) (Gen 3)	
Ingress Protection	IP65	
Cooling	Natural Convection	
Operating Ambient Temperature Range	-20 ~ +55 ℃ (Load shedding over 45℃)	
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	

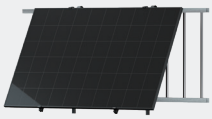
Related Products



Micro Hybrid Storage Unit (MSU)



Battery Pack (B2000)



Easy Solar Kit (Without Microinverter)

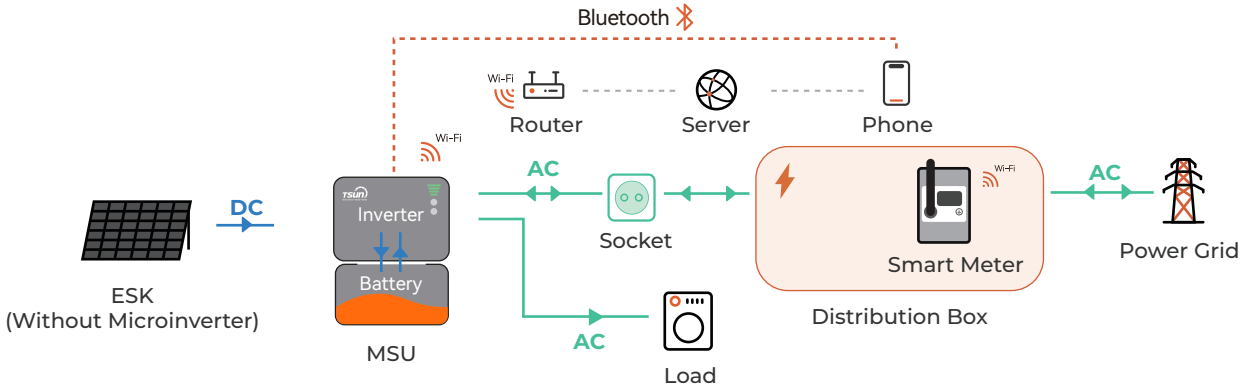


Smart Meter (Direct Connected)



Smart Meter (CT Connected)

Diagram



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