

MARSTEK

Power Anywhere & Anytime

MERCURY M5000-EU

Solar Generator

5kW Continuous, 10kW Peak Output, 5kW AC Input
10kW 4 MPPT PV Input
5.12kWh LFP Battery, Cycle life ≥ 6000

Extra Battery Module (EBM)
5.12kWh LFP Battery, Cycle life ≥ 6000
Expand to 2 EBMs, Total up to 15.36kWh

Max. 5kW AC Output Power, Peak 10kW
Max. 4 Parallel 20kW / 60kWh for Whole-home Backup

UPS Switch Time ≤ 20 ms, HD TFT Touch Display
Support Wi-Fi / Bluetooth, IP65 Waterproof & Dustproof

Weight 92kg, Built-in Lifting Strap, Separable Trolley

MARSTEK APP



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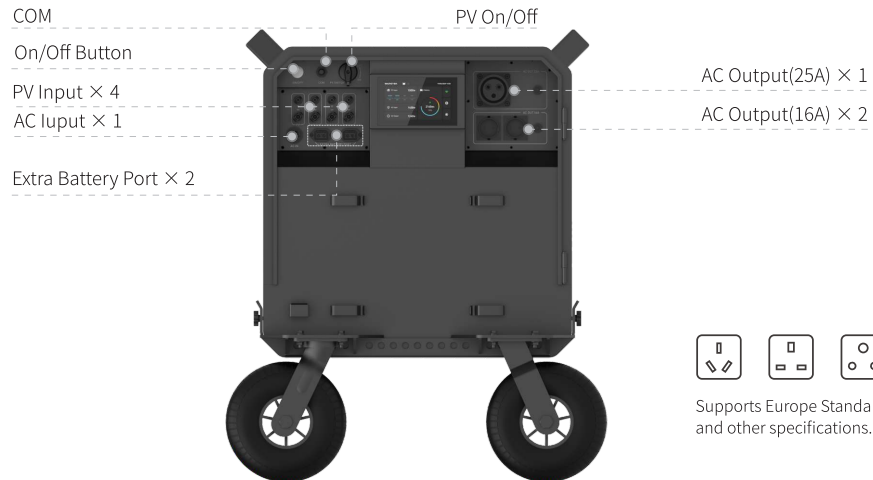
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Product Manual

SPECIFICATIONS



Model	M5000-EU
GENERAL	
Capacity	5120Wh*N (N≤3)
Cell Chemistry	LiFePO ₄
Lifecycle	>6000 (25°C)
Indicator	APP / LCD Screen / Web
Operating Temperature Range	14 ~ 131°F (-10 ~ 55°C)
Material	Metal
Weight	202.8lbs / 92kg
Dimensions	25.2*16.1*25.2in (640*408*640mm) L*W*H
Battery Management System	OVP,UVP,OC,SCP,OTP,UTP,etc
Solar Charge System	MPPT Charge Controller
Communication	External Battery Access CAN*2, RS485 for EMS, Wifi / BT
PV Input	
Max. PV Power	10kW
MPPT Voltage Range	85V~500V
Number of MPPT Trackers	4
Max. Input Current Per MPPT	14A
AC Input	
Nominal Input Power	5kW
Nominal Input Voltage	230V / 207V~253V
Grid Input Mode	CEE7 / 3: 3.6kW, IEC60309 332C6H: 5.0kW
Nominal Grid Frequency	50Hz / 60Hz
Power Factor	0.99Leading~0.99 Lagging
Total Current Harmonic Distortion	THDi < 3%
AC Output	
Nominal Output Power	5kW
Peak Output Power (500 Milliseconds)	10kW
Total Voltage Harmonic Distortion	THDv < 3%
Disruption Time of Backup Switch	15ms
Battery	
Onboard Battery Capacity	5.12kWh
External Battery Module Models	P5000
Number of External Modules Per Inverter	2PCS
Nominal Voltage of External Module	400V
Max. Charging Power	4.8kW
Max. Discharging Power	5kW
Protection	
Safety Protection Feature	Insulation Monitoring, Residual Current Monitoring, DC Reverse Polarity Protection, AC OV / OC / SC Protection, Type II DC / AC Surge Protection
System Ingress Protection Rating	IP65
Noise Level	30dB
Standard Compliance	
Safety Standard	IEC / EN62109-1, IEC / EN62619
EMC Standard	IEC / EN61000-6-1~4 Class B
Transportation	UN38.3