

MARSTEK

Power Anywhere & Anytime

MERCURY M5000-N

5kW Off-Grid Solar Generator with 4 MPPT 10kW PV-Input

4 MPPTs for Max. 10kW PV Input, Max. 5kW AC Input
Max. 5kW AC Output Power, Peak Power 10kW (1s)
5.12kWh, Expandable with up to 2 Extra Batteries & 15.36kWh

UPS Switchover Time ≤ 15ms, HD TFT Touch Display
Support Wi-Fi/Bluetooth Connectivity
IP65 Waterproof & Dustproof, Sub-30dB Operation
LFP Battery with 6000+ Cycles, 5 Years Warranty
Weight 115kg, Lifting Strap, Separable Trolley Included
MARSTEK App



Marstek Energy Co., Limited

Add: BLDG#A, Changfang Industrial Park, No.2 Guihua 5th Road, Pingshan District, Shenzhen, Guangdong, China

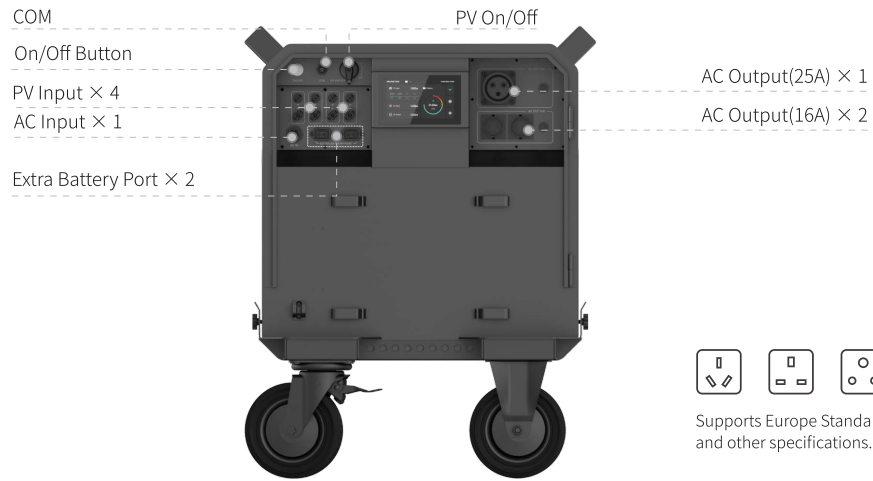
Tel: 86-755-28398778

Email: market@marstekenergy.com

Web: www.marstekenergy.com



SPECIFICATIONS



Model	M5000-N
General	
Capacity	5120Wh*N (N≤3)
Cell Chemistry	LiFePO ₄
Lifecycle	>6000 (25°C)
Display	7" LCD, App
Storage Temperature Range	-25°C ~ 60°C
Operating Temperature Range	-10°C ~ 55°C
Max. Operating Altitude	4000m, Derating from 2000m
Weight	115kg
Dimension (L*W*H)	640*408*640mm
Cooling	Natural Cooling
Standby Power Consumption	<20W (Work) / < 10mW (Sleep)
Noise Level	<30dB
System Ingress Protection Rating	IP65
Communication	External Battery Access CAN*2, RS-485 for EMS, Wi-Fi / Bluetooth
PV Input	
Max. PV Power	10kW
MPPT Voltage Range	85V ~ 500V
Number of MPPT Trackers	4
Max. Input Current Per MPPT	14A
Max. Short-Circuit Current Per MPPT	16A
AC Input	
Nominal Input Power	5kW
Nominal Input Voltage	230V / 207V ~ 253V
Grid Input Power	CEE7 / 3:3.6kW, IEC60309 332C6H: 5.0kW
Nominal Grid Frequency	50Hz / 60Hz
Power Factor	≥0.99
THDi	<3%
AC Output	
Nominal Output Power	5kW
Peak Output Power (1s)	150% ~ 200%
Nominal Output Voltage	Single Phase: 230V
THDv	<3%
Disruption Time of Backup Switch	15ms
Efficiency	
DC Max. Efficiency	97.60%
MPPT Efficiency	99.80%
Battery	
Onboard Battery Capacity	5.12kWh
External Battery Module Model	P5000-N
Number of External Modules Per Inverter	2PCS
Nominal Voltage of External Module	104V
Max. Charging Power	5kW
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
Standard Compliance	
Safety Standard	IEC 62109-1/-2, IEC62321, IEC62619
EMC Standard	EN IEC 62311, ETSI EH 301 489-1 2.2.3(2019-11), ETSI EN 301 489-17, EN 55032: 2015+A1:2020, EH 55035:2017+A11:2020, EH IEC 61000-3-2:2019+A1:2021:EH 61000-3-3:2013+2:2021 :EH 300328
Transportation	UN38.3

SPECIFICATIONS



Model	P5000-N
Performance Specification	
Battery Type	LiFePO ₄
Cell Capacity	50Ah
Number Of Battery Strings	32
Cycle Life	6000
Total Energy Capacity	5.12kWh
Usable Energy Capacity	5kWh
Battery Modules Voltage Range	89.6V~115.2V
Nonimal Current Of Battery Module	38.46A
Max. Charge Power	5kW
Max. Discharge Power	5kW
Peak Discharge Power (10 Seconds)	7.5kW
Protection	
Safety Protection Feature	Cell and pack OT/UT/OV/UV/OC/SC protection, Type II DC surge protection.
General Data	
Dimensions (W/H/D)	600*440*212mm
Weight	53.5kg
Storage Temperature Range	-25°C ~ 60°C
Operating Temperature Range	-10°C ~ 55°C
Relative Humidity Range	0~100%
Max. Operating Altitude	4000m, derating from 2000m
Cooling	Natural cooling
Standby Power Consumption	10W
System Ingress Protection Rating	IP65
Noise Level	<30dB
Communication	Inverter Access CAN
Standard Compliance	
Safety Standard	EN IEC 62368-1, IEC 62619, IEC 60529, RoHS, REACH: SVHC, 2023/1542
Emc Standard	EN 55032:2015+A1:2020, EN 55035: 2017+A11:2020, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A2:2021
Transportation	UN38.3