

MARSTEK

Power Anywhere & Anytime



MARSTEK VENUS E 4.0

3kW 5kWh Plug-in Battery



Stable Grid & Backup Power

3kW Power for Charging, Discharging and Seamless Backup Supply



Smart EV Charging Control

Pairs Perfectly with MARSTEK Portable EV Charger



Power for Everyday Needs

5kWh Capacity for Stable and Reliable Daily Use



Plug-in Time-Saving Design

Innovative Interface for Safe & Stable Connection



AI-Powered Energy Earnings

AI-Driven Energy Trading and VPP Participation to Unlock Value



Scalable with SmartBox

Expand Up to 9kW / 15kWh in Minutes with Parallel Operation

Marstek Energy Co., Limited

Add: Bldg. 5B & 6, Phase 2, New Energy Vehicle Industrial Park, Jinque Rd., Pingshan, Shenzhen, Guangdong, China

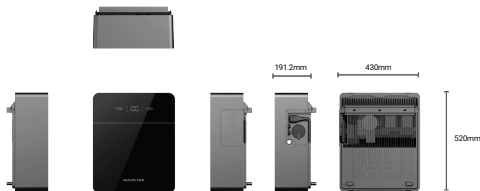
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SPECIFICATIONS



Model	MARSTEK VENUS E 4.0
AC: Grid-Tied Input	
Rated Input Power	3kVA
Operating Phase	L/N/PE
Rated Grid Voltage	230V/220V
Rated Grid Frequency	50Hz/60Hz
Rated Grid Input Current	13.04A
Power Factor	>0.99
THDi	<3%
AC: Grid-Tied Output	
Rated Output Power	800VA/3kVA
Operating Phase	L/N/PE
Rated Grid Voltage	230V/220V
Rated Grid Frequency	50Hz/60Hz
Rated Grid Output Current	3.48A/13.04A
Power Factor	>0.99 Default (-0.8~0.8 Adjustable)
THDi	<3%
AC: Off-Grid Output	
Rated Input/Output Power	3kVA
Peak Input/Output Power	3.6kVA, 10s
Rated Input/Output Current	13.04A
Rated Voltage	230V
Rated Frequency	50Hz
THDu	<3%
Battery Parameters	
Nominal Voltage	16V
Capacity	5024Wh(314Ah*SS)
Cycle Life	>10000(25°C)
Battery Type	LiFePO4
Depth of Discharge (DOD)	88%
Efficiency	
Maximum Efficiency (Battery Side and AC Side Cycle)	>90%
Protection	
Protection Class	I
Overvoltage Category	DC II/AC III
Protection	
Dimensions	520 × 430 × 191.2mm
Weight	47.2kg
Ambient Temperature Range	-20~+60°C (Storage: -30~+85°C)
Relative Humidity	0~95%
Ingress Protection Rating	IP65
Cooling Method	Natural Convection
Maximum Altitude	2000m
Grid-Connected AC Port	MST-Grid Port
Off-Grid Port	European Standard Socket
Display	LCD
Communication	Bluetooth, WiFi, LAN