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

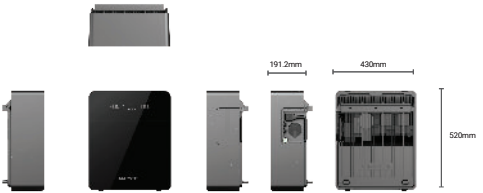
Scalable with SmartBox
Expand Up to 9kW / 15kWh in Minutes with Parallel Operation

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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*5S)
Cycle Life	>10000(25°C)
Batttery 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 Humanity	0-95%
Ingress Protection Rating	IP65
Cooling Method	Natural Convention
Maximum Altitude	2000m
Grid-Connected AC Port	MST-Grid Port
Off-Grid Port	European Standard Socket
Display	LCD
Communication	Bluetooth，WiFi，LAN