MARSTEK

Power Anywhere & Anytime



MARSTEK VENUS E Mini

1.5kW 2kWh Plug-in Battery

Efficient Bidirectional Power
1.5kW Bidirectional Power
for Worry-Free Energy

Reliable Backup Protection
1.5kW Backup Power, Peak at 1.8kW

Quick Installation
Plug & Play in 5 Minutes

Compact Wall-Mounted Design
2kWh Usable Capacity per Unit

MARSTEK AI
AI-Driven Energy Optimization

Built for Durability
10000+ Cycles LFP Cells | IP65
10-Year Warranty

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SPECIFICATIONS



Model	MARSTEK VENUS E Mini
Host Battery Parameters	
Rated Voltage	6.4V
Capacity	2009.6Wh（314Ah*2S）
Cycle Life	>10000 (25°C)
Battery Cell Type	$LiFePO_4$
Depth of Discharge (DoD)	90%
AC Input	
Rated Input Power	1.5kVA
Working Phase	L/N/PE
Rated Grid Voltage / Frequency	230V/50Hz
Rated Grid Input Current	6.52A
Power Factor	>0.99 (default), 0.8 lagging...0.8 leading (adjustable)
THDi	<3%
AC Output	
Rated Output Power	800VA/1.5kVA
Working Phase	L/N/PE
Rated Grid Voltage / Frequency	230V/50Hz
Rated Grid Output Current	3.48A/6.52A
Power Factor	>0.99 (Default), 0.8 lagging...0.8 leading (Adjustable)
THDi	<3%
Backup (Off-Grid)	
Rated Output Power	1.5kVA
Peak Output Power	1.8kVA (60s)
Rated Output Current	6.52A
Rated Voltage / Frequency	230V/50Hz
THDu (Linear Load)	<3%
Efficiency	
Battery Side – AC Side Maximum Efficiency	>88%
Protection	
Protection Class	I
Overvoltage Withstand Level	DC II /AC III
General	
Ambient Temperature Range	-20°C ~ +60°C (Storage: -30°C ~ +85°C)
Dimensions	386*450*105mm
Weight	22kg
Relative Humidity	≤95%
IP Rating	IP65
Cooling Method	Natural Cooling
Maximum Operating Altitude	2000m
Grid-Connected Port	MST-grid Port
Off-Grid Port	European Socket
Display	LED
Communication Interfaces	Bluetooth, Wi-Fi