



MARSTEK VENUS D (AC-Version)

Stackable Plug-in ESS with 2.5 kW AC-Coupling



Home's Intelligent Core

2.5kW Bidirectional Inverter to Deliver Robust Performance



Reliable Power Support

Peak at 3.0kW and EPS <15ms



Modular Design

Start with 2.56kWh, Max Up to 15.36kWh Capacity



Quick Installation

Plug & Play in 5 Minutes

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	MARSTEK VENUS-D (AC-Version)
Main Unit Parameters	
Battery Storage Unit (Stack)	MST-E2.5ST-D
Number of Storage Units	1~6 pcs
Total Storage Capacity	2.56kWh ~ 15.36kWh
AC Input	
Rated Input Power	2.5kVA
Working Phase	L/N/PE
Rated Grid Voltage / Frequency	230V / 50Hz
Rated Grid Output Current	10.87A
AC Output	
Rated Output Power	0.8 kVA / 2.5 kVA
Working Phase	L/N/PE
Rated Grid Voltage / Frequency	230V (207V~253V) / 50Hz
Rated Grid Output Current	3.48 A / 10.87 A
Power Factor	>0.99 (default)
THDi (Total Harmonic Distortion of Current)	<3%
Backup (Off-Grid)	
Rated Output Power	2.5kVA
Peak Output Power	3.0kVA (10s)
Rated Output Voltage / Frequency	230V / 50Hz
THDu (Linear Load)	<3%
Efficiency	
Battery Side – AC Side Maximum Efficiency	>94.1%
Basic Parameters	
Ambient Temperature Range	-20°C ~ +60°C (Storage: -30°C ~ +85°C)
Relative Humidity	≤95%
IP Rating	IP65
Dimensions	480 × 320 × 105mm
Weight	17.5kg
Cooling Method	Natural Cooling
Maximum Operating Altitude	2000m
General	
Grid Connector Type	BC01
Off-Grid Socket Type	European Socket
Display	LED
Communication Interfaces	Bluetooth, Wi-Fi, RS-485, Ethernet



Model	MST-E2.5ST-D
Battery Storage Parameters	
Rated Voltage	51.2V (16S)
Capacity	2.56kWh
Cycle Life	>6000(25°C)
Battery Cell Type	LiFePO ₄
Depth of Discharge (DoD)	90%
Basic Parameters	
Ambient Temperature Range	-20°C ~ +60°C (Storage -30°C ~ +85°C)
Relative Humidity	≤95%
IP Rating	IP65
Cooling Method	Natural Cooling
Maximum Operating Altitude	2000 m
Dimensions	480 × 320 × 150mm
Weight	26kg