





## **SPECIFICATIONS**



Model	MARSTEK VENUS-D
Energy Storage Unit (Stack)	
Adaptive Energy Storage Unit	MST-E2.5ST-D
Number of Energy Storage Unit	6PCS (Max)
Total Capacity of the Product	2.56kWh~15.36kWh
PV Input	
Maximum Input Power	4kW
MPPT Operating Voltage Range	25V~55V
Maximum Input Current (Single Channel)	32A
MPPT Track Number	4
MPPT Efficiency	99.80%
Back-up (Off-grid)	
Rated Output Power	2.2kVA
Peak Output Power	2.5kVA, 60s
Rated Output Voltage	230V
THDu (Linear Load)	<3%
AC Input/Output	
Rated Output Power	2.2kVA / 0.8kVA & 2.2kVA
Working Phase	L/N/PE
Rated Grid Voltage	230V
Rated Grid Frequency	50Hz
Rated Grid Output Current	9.57A / 3.48A & 9.57A
Power Factor	> 0.99(default), 0.8lagging0.8leading(adjustable)
THDi	<3%
Efficiency	
Battery Side - AC Side Maximum Efficiency	>94.5%
Basic Parameters	
Ambient Temperature Range	-20°C ~ +60°C (Storage -30°C~ +85°C)
Relative Humidity	0-95%
IP Level	lp65
Dimensions	480*320*105mm
Weight	17.5kg
Cooling Method	Natural Cooling
Maximum Altitude	2000m
General	
Grid connection	BC05
Photovoltaic connection	MC4
Off-grid port	European Socket
Display	LED
Communication	Bluetooth, WIFI & RS-485, EtherNet



Model	MST-E2.5ST-D
Battery Parameter	
Rated Voltage	51.2V (16S)
Battery Energy	2.56kWh
Life Cycle	>6000(25°C)
Battery Type	LiFePO <sub>4</sub>
Depth of Discharge	90%
Battery Capacity	50Ah
Basic Parameters	
Ambient Temperature Range	-20°C ~ +60°C (Storage -30°C ~ +85°C)
Relative Humidity	≤95%
IP Level	IP65
Dimensions	480*320*150mm
Weight	26kg
Cooling Method	Natural Cooling
Maximum Altitude	2000m