

MARSTEK

Power Anywhere & Anytime



MARSTEK MARS I SE

All-in-One 6kW/10kWh Single-Phase Residential ESS



All-in-One Battery

The Complete Smart Energy Storage Solution



Powerful Performance

6kW Output with 12kW PV Input for Reliable Home Power



Flexible & Futureproof

10~60kWh Capacity, Expandable up to 24kW Output



MARSTEK AI

AI-Driven Energy Optimization

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SPECIFICATIONS



Model	MARSTEK MARS I SE
PV Input	
Nominal Input Power	12KW
MPPT Voltage Range	125-500V
Startup Voltage	150V
Operating Voltage Range	125-550V
Maximum DC Input Voltage	550V
Nominal Input Current (Single Channel)	16A
Maximum Input Short-Circuit Current (Single Channel)	20.8A
Number of PV Input Channels	2
MPPT Track Number	2
MPPT Efficiency	99.90%
AC Input	
Nominal Input Power	7.5kVA
Phase Configuration	L/N/PE
Nominal Grid Voltage	230V
Nominal Grid Frequency	50/60Hz
Nominal Grid Output Current	32.6A
Power Factor	> 0.99
THDi	<3%
AC Output	
Nominal Output Power	6kVA
Phase Configuration	L/N/PE
Nominal Grid Voltage	230V
Nominal Grid Frequency	50/60Hz
Nominal Grid Output Current	26.1A
Power Factor	0.8leading~0.8lagging (Adjustable)
THDi	<3%
Backup (Off Grid)	
Nominal Output Power	6kVA
Peak Output Power	12kVA
Nominal Output Current	27.4A
Nominal Output Voltage	230V
Nominal Output Frequency	50/60Hz (Adjustable)
THDu	<3%
Efficiency	
Max. Efficiency (Battery to AC)	>94%
Protection	
Protection Class	I
Overvoltage Category	DC II /AC II
General	
Nominal Voltage	32V (10S)
Battery Capacity	10kWh
Life Cycle	>6000 (25°C)
Battery Type	LiFePO ₄
DoD (Depth of Discharge)	90%
Dimension	500*270*1127mm
Weight	160kg
Ambient Temperature Range	-20°C ~ 55°C (Storage -25°C ~ 60°C)
Relative Humidity	0-95%
IP Rating	IP65
Noise Level	<30dB
Cooling Method	Natural Cooling
Maximum Altitude	2000m
Display	LED
Communication	Bluetooth, Wi-Fi, Ethernet, RS-485, DRM, DI/DO
Product Certification	IEC/EN62109-1, IEC/EN61000-6-1~4 Class B, EN50549-1:2019, VDE4105:2018, UN38.3
Extra Battery	
Number of Extra Battery	5
Nominal Voltage of Battery Module	400V
Voltage Range of Battery Module	350~500V
Maximum Charge Power	6kW
Maximum Charge Current	17.1A
Maximum Discharge Power	6kW
Maximum Discharge Current	17.1A