



MARSTEK VENUS X

All-in-One 6kW AC-Coupled 10kwh ESS



All-in-One Battery

The Complete Smart Energy Storage Solution



Powerful & Scalable

6kW Bidirectional Grid-Tied, 10~60kWh
Flexible Expansion



WireLite

Simplified Wiring for Fast AC Coupling



Universal Compatibility

7.5kW AC PV Input, Seamless Integration
with Leading PV Systems

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SPECIFICATIONS



Model	MARSTEK VENUS X
AC PV Input	
Nominal Input Power	6kVA
Phase Configuration	L/N/PE
Nominal Grid Voltage	230V
Nominal Grid Frequency	50Hz/60Hz
Nominal Grid Output Current	27.6A
AC Input	
Nominal Input Power	7.5kVA
Phase Configuration	L/N/PE
Nominal Grid Voltage	230V
Nominal Grid Frequency	50Hz/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	50Hz/60Hz
Nominal Grid Output Current	26.1A
Power Factor	0.8 leading~0.8 lagging
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	50Hz/60Hz
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 ~+ 55°C (Storage -25 ~+ 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
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	350V~500V
Maximum Charge Power	6kW
Maximum Charge Current	17.1A
Maximum Discharge Power	6kW
Maximum Discharge Current	17.1A