

MARSTEK VENUS X

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

WireLite™ Easy Wiring to Distribution Box for AC Coupling

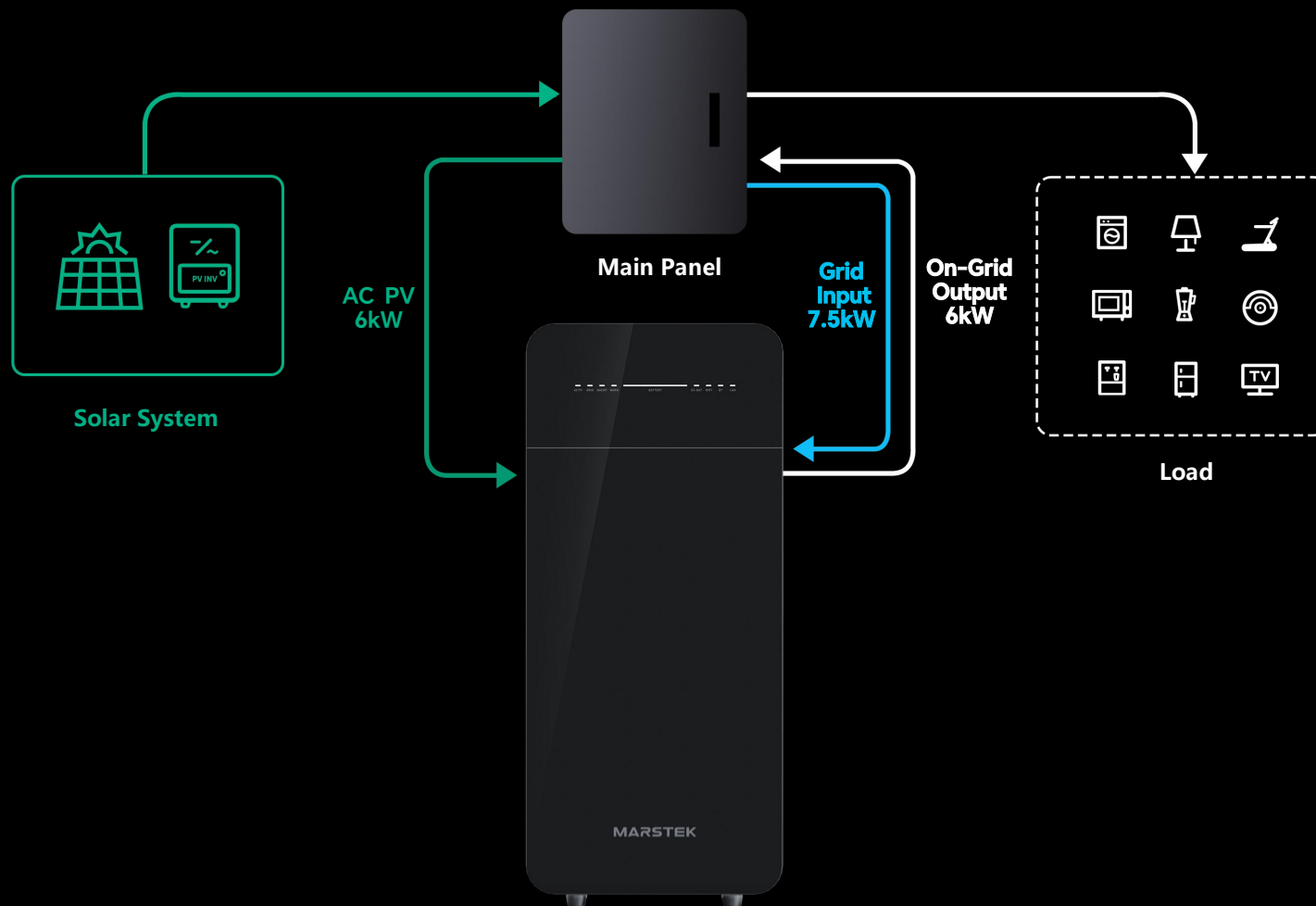
Simpler Connection for a Smarter Life

6kW On-Grid Output

7.5kW Grid Input

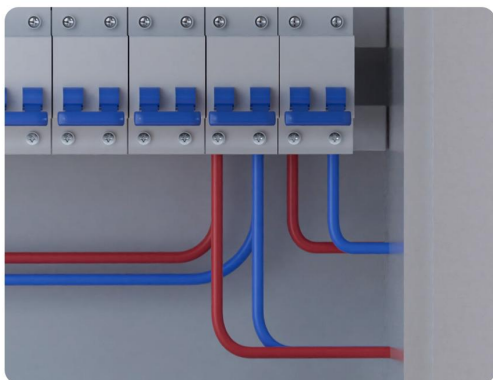
6kW Battery Charging + 1.5kW Bypass

6kW AC PV Input



VENUS X VS Traditional Residential ESS

WireLite™ & Complex Wiring



1

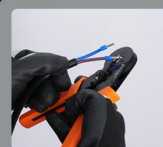
Connect the two provided cables to the distribution box



2

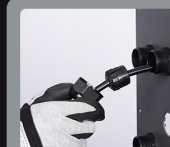
Connect the two provided cables to the AC PV & Grid ports

VS



1

Cut, connect, strip, add and crimp PV cables



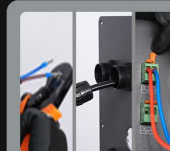
2

Thread cables, fix the waterproof PG gland



3

Insert PV cables and fasten them



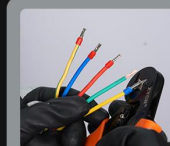
4

Repeat the above steps 3 times



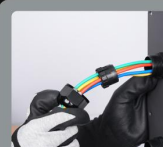
5

Cover the PV cables panel, screw it



6

Cut, connect, strip, add and crimp AC cables



7

Thread cables, fix the waterproof PG gland



8

Insert the AC cables and fasten them



9

Cover the AC cables panel, screw it

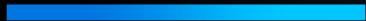


10

Route to the distribution box

6kW Bidirectional Grid-Connected

for High-Power Charging and Discharging



Up to 6kW AC PV Integration

Smart Control of Existing Solar Systems

PV Inverter Main Panel

Grid
AC PV



Flexible Expansion

10kWh

Main Unit

60kWh

Flexible Expansion up to 5 Extra Battery Packs

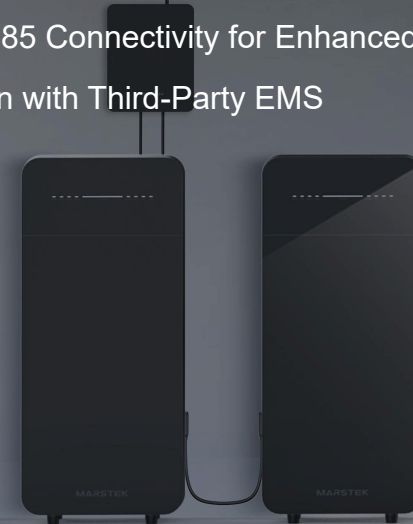




Real-Time Monitoring & Control

Marstek App Integration

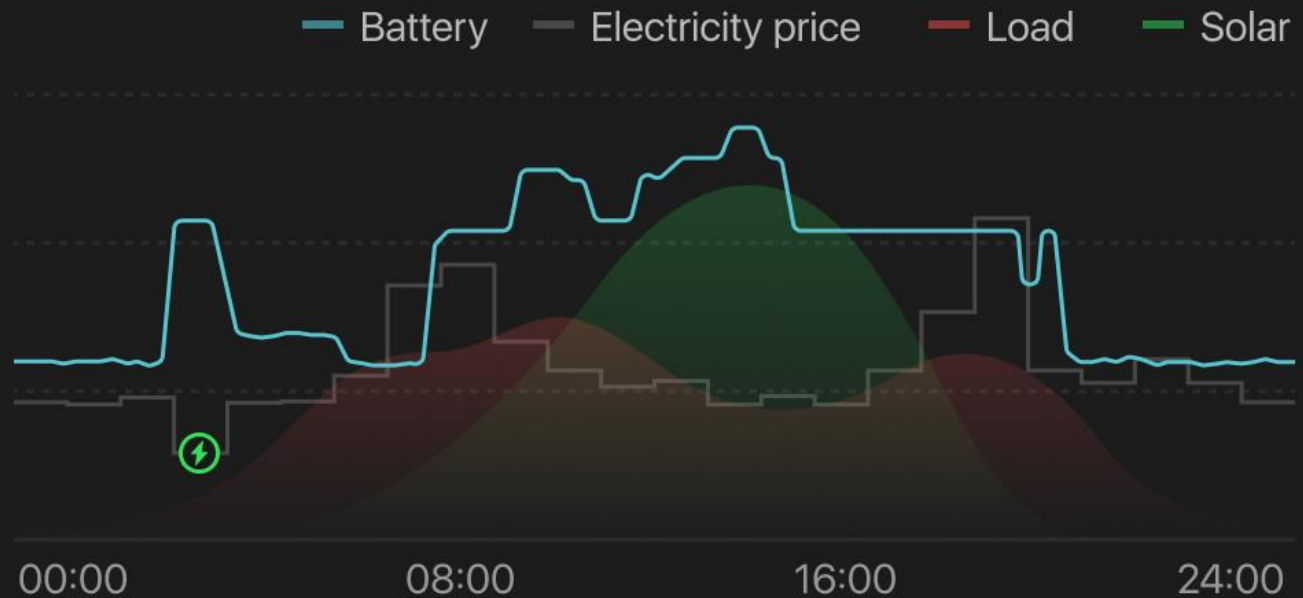
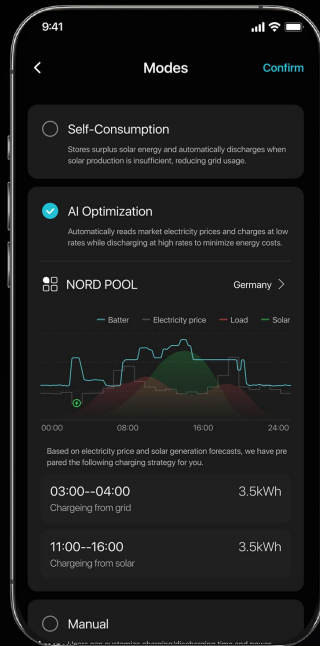
Wi-Fi/Bluetooth/Ethernet/RS-485 Connectivity for Enhanced Data Security
Open API, Supports Integration with Third-Party EMS



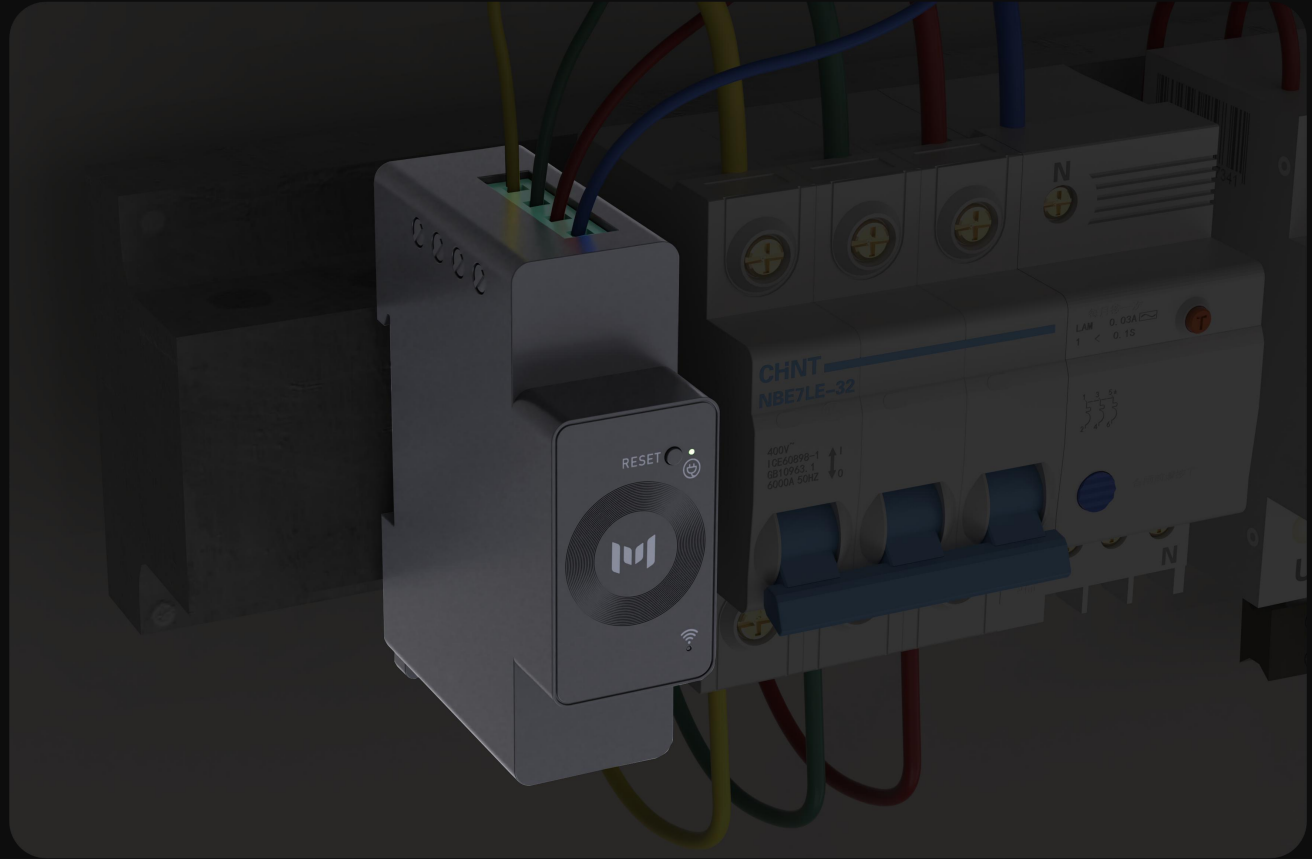
* Designed for Business Clients: API Access for Advanced Integration

AI Optimization

TOU Management for Cost Savings



Self-Consumption with Smart Meter for Anti Feed-in



EPS for Whole-Home Backup

Electrician Installation Required

6kW

Backup Power

12kW

Peak Power

< 10ms

Switchover



LFP

Battery

6000+

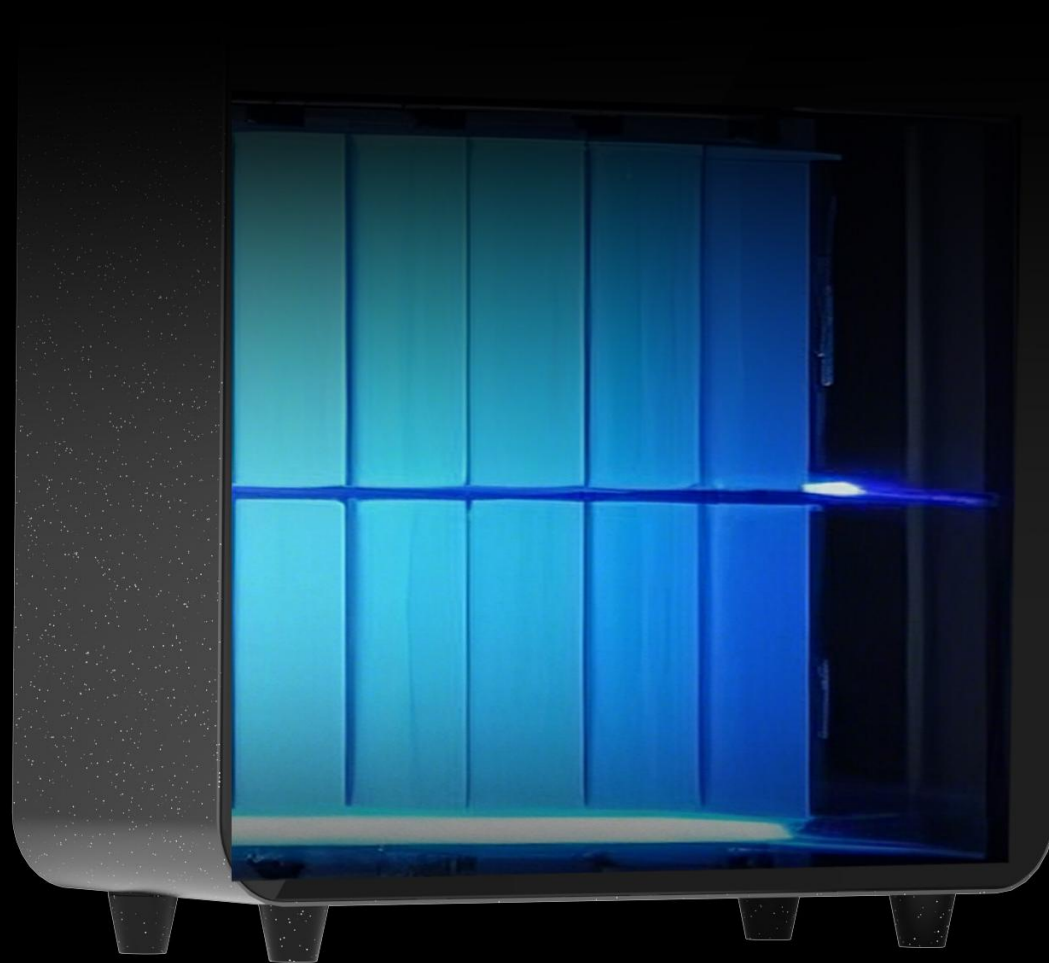
Life Cycles

10

Years Warranty

15

Years Lifespan



Open API

Third-Party EMS

-20°C to 55°C

Reliable Power Supply

6kW AC PV

Smart Control of
Existing Solar Systems

**6kW Bidirectional
Grid-Connected**

for High-Power Charging
and Discharging

**Whole-Home
Backup**

Sub-30dB

Silent Operation

IP65

Waterproof & Dustproof

AI Optimized

TOU Management
for Cost Savings



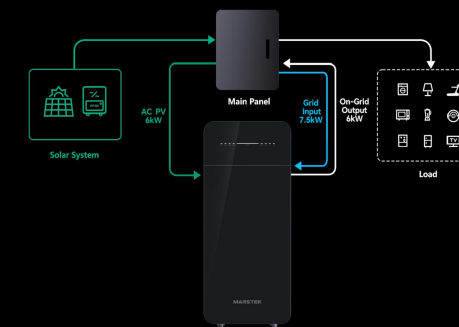
MARSTEK VENUS X

All-In-One 6kW AC-Coupled 10kWh ESS



WireLite™

Easy Wiring to Distribution Box for AC Coupling



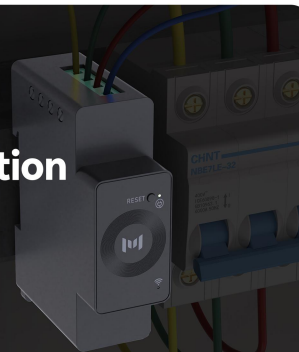
Wi-Fi/BT/Ethernet/RS-485 Connectivity

**Marstek App
Integration**



Self-Consumption

Anti Feed-in



LFP Battery with
6000+ Cycles

10
Years
Warranty

15
Years
Lifespan

**Up to 5 Extra Batteries
& 60kWh**



VENUS X

All-in-One

6kW AC-Coupled 10kWh ESS



Specification Type	Model:MARSTEK VENUS X
AC PV Input	
Nominal Input Power	6kVA
Phase Configuration	L/N/PE
Nominal Grid Voltage	230V
Nominal Grid Frequency	50/60Hz
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	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
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
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	LiFePO4
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, RS485
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

THANKS!

Contact Us

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Web: marstekenergy.com



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