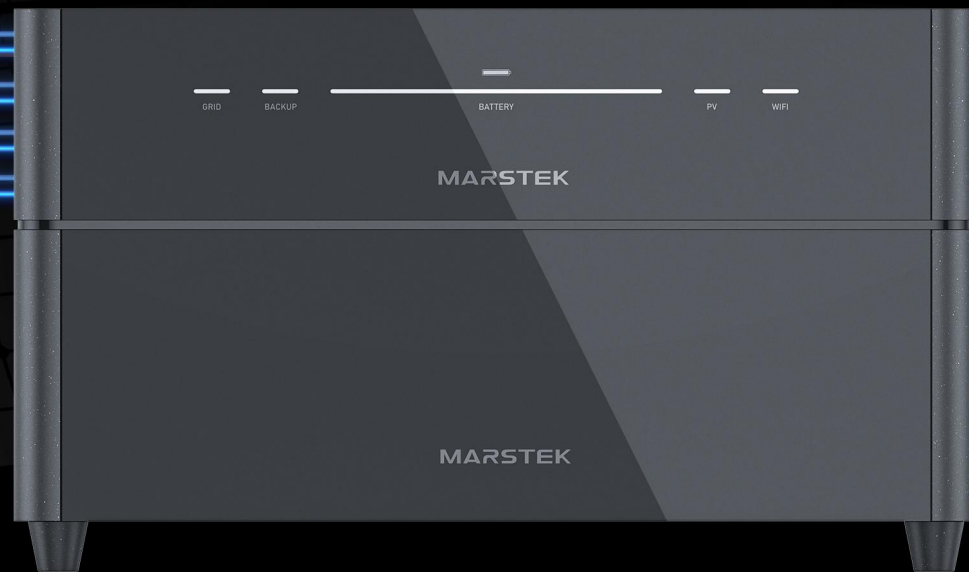


MARSTEK VENUS D

4kW 4 MPPT Balcony ESS with 2.2kW AC-Coupling

Powerful Balcony Solar Storage System

Plug-and-Play | Max. 4kW PV Input | 8 Solar Panels | 4 MPPT



AC-Coupled Energy Storage System

Plug-and-Play

2.2kW Bidirectional On-Grid Power

Max. 2.2kW Backup



Plug & Play

Installation in Just

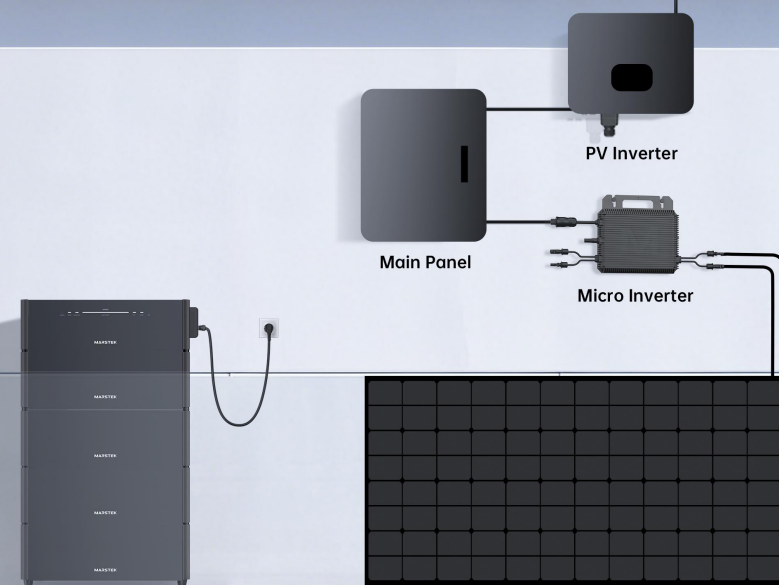
5 Minutes



Compatible with Any Existing Solar System

Seamless integration

No rewiring, no upgrades, just more solar utilization.



Modular Design

2.56kWh

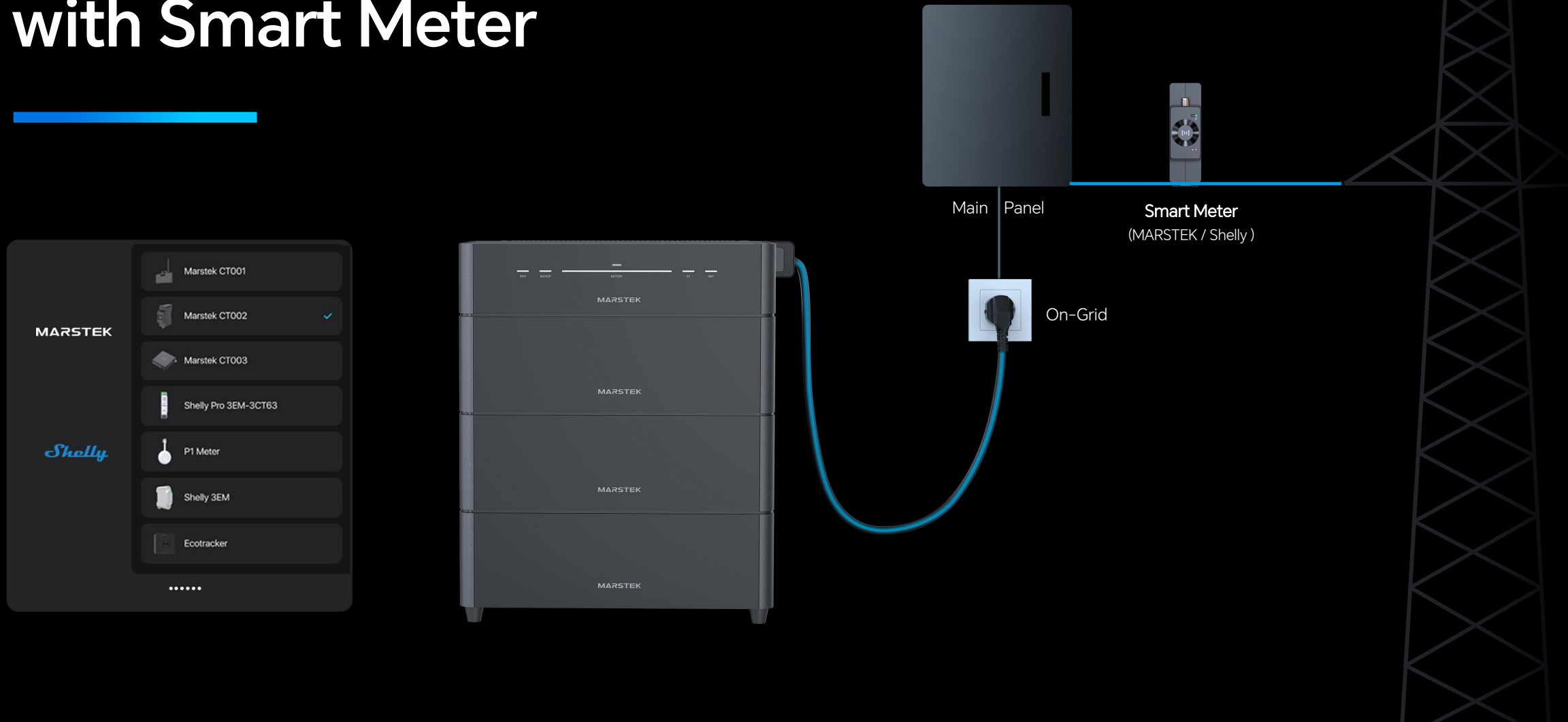
Per Battery

15.36kWh

Flexible Expansion up to 6 Units



Anti Feed-In with Smart Meter



AI Optimization

TOU Management for Cost Savings

Command with MARSTEK App



A modern A-frame cabin with a steep, dark metal roof and light-colored wood siding. The cabin is illuminated from within, showing a cozy interior with a sofa and coffee table. A large glass window on the right side of the cabin reveals the interior. A solar panel array is mounted on the left side of the roof. A black battery storage unit is positioned on the wooden deck in front of the cabin. The cabin is situated in a wooded area with trees and rocks visible in the foreground and background. The sky is a mix of blue and orange, suggesting dusk or dawn.

Plug-In Off-Grid Microgrid

For example, Summer House, Yacht...

Sub-30dB

Silence Operation

IP65

Waterproof & Dustproof



10
Years

Warranty

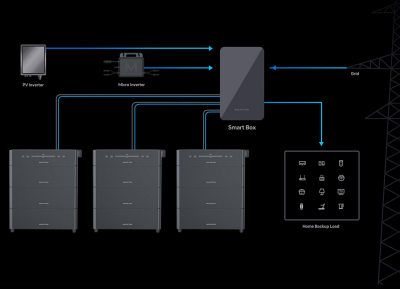
15
Years

Lifespan

-20°C to 60°C
Reliable Power from

Whole-Home Backup

With MARSTEK SmartBox



2.2kW Backup

Peak at 2.4kW

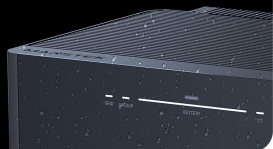


Plug & Play
Installation in Just
5 Minutes



IP65

Waterproof & Dustproof



MARSTEK VENUS D

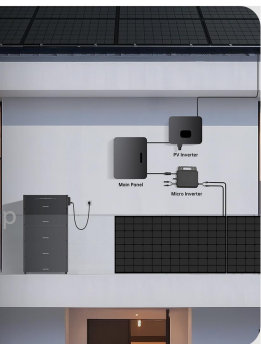
4kW Solar Power | 4 MPPT | 2.2kW Bidirectional Power



EPS Switchover in 15ms

Plug & Play

Seamlessly Integrate
with Your Existing Solar Setup



Up to 2.5kW Battery Charging

AI Optimized

TOU Management
for Cost Savings



Anti Feed-In

With Smart Meter

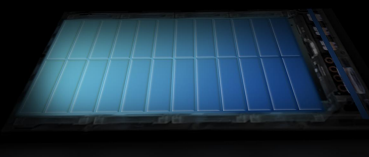


Sub-30dB

Silent Operation

6000+ Cycles

Long-Lasting LFP Cells

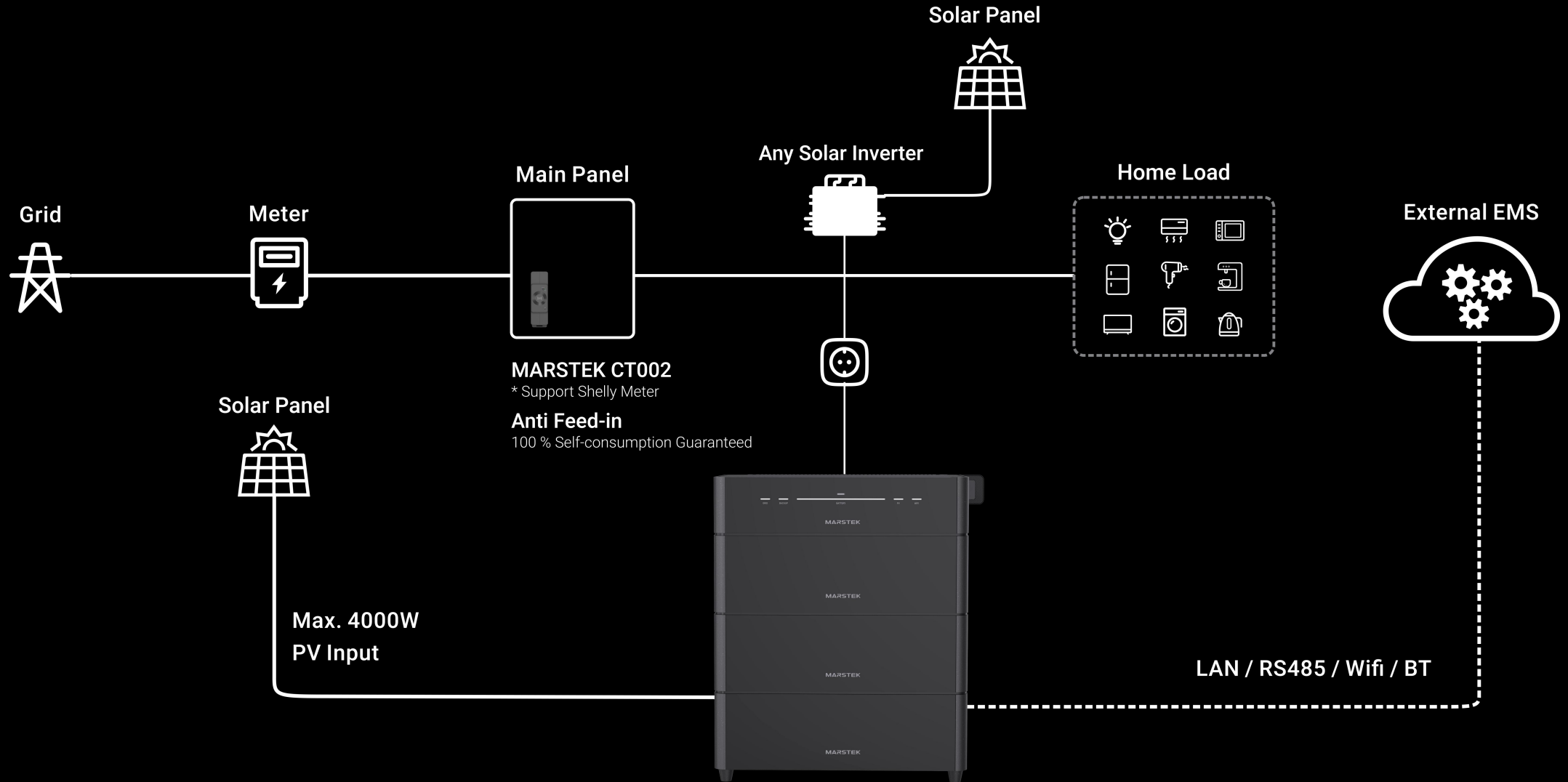


Modular Design, Flexible Expansion

Up to 6 Units
15.36kWh



Installation & Wiring Layout for MARSTEK VENUS D



VENUS D + EBM

**4kW 4MPPT Balcony ESS
with 2.2kW AC-Coupling**



Specification Type	Host Specifications	
	Venus-D+EBM	
	/	
Energy storage unit (stack)		
Adaptive energy storage unit	EBM	
Number of energy storage unit	6PCS (max)	
Total capacity of the product	2.56~15.36kWh	
DC: PV input		
Maximum input power	4000W	
MPPT operating voltage range	25~55V	
Maximum input circuit current(single channel)	32A	
MPPT track number	4	
MPPT efficiency	99.80%	
AC: Off-grid output		
Rated output power	2200VA	
Peak output power	2400VA, 60s	
Rated output voltage	230V	
THDu(Linear load)	<3%	
AC: Grid-connected output		
Rated output power	800VA/2200VA	
Working phase	L/N/PE	
Rated grid voltage	230V	
Rated grid frequency	50Hz	
Rated grid output current	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 ~ + 60℃ （Storage-30 ~ + 85℃ ）	
Relative humidity	0-95%	
IP level	IP65	
Cooling method	Natural cooling	
Maximum altitude	2000m	
other		
Grid connection	BC01	
Photovoltaic connection	MC4	
Off-grid port	European socket	
Display	LED	
Communication	Bluetooth,WIFI,RS-485(RJ45)&EtherNet	

VENUS D + EBM

4kW 4MPPT Balcony ESS
with 2.2kW AC-Coupling



Specification Type	Battery Specification
	EBM
Battery parameter	
Battery energy	2.56kWh
life cycle	>6000(25°C)
Battery Type	LiFePO4
Battery capacity	50Ah
Basic parameters	
Ambient temperature range	-20 ~ + 60℃（Storage-30 ~ + 85℃）
Relative humidity	≤95%
IP level	IP65
Cooling method	Natural cooling
Maximum altitude	2000m

THANKS!

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