MARSTEK VENUS A

All-in-One 2.4kW 4 MPPT Balcony ESS with 1.5kW AC-Coupling

Powerful Balcony Solar Storage System

Plug & Play | Max. 2.4kW PV Input | 4 MPPT



AC-Coupled Energy Storage System

Plug & Play

1.5kW Bidirectional On-Grid Power

Max. 1.2kW Backup



Modular Design

2.12kWh

Per Battery Pack

12.72kWh

Flexible Expansion up to 5 Battery Packs



Plug & Play

Installation in Just

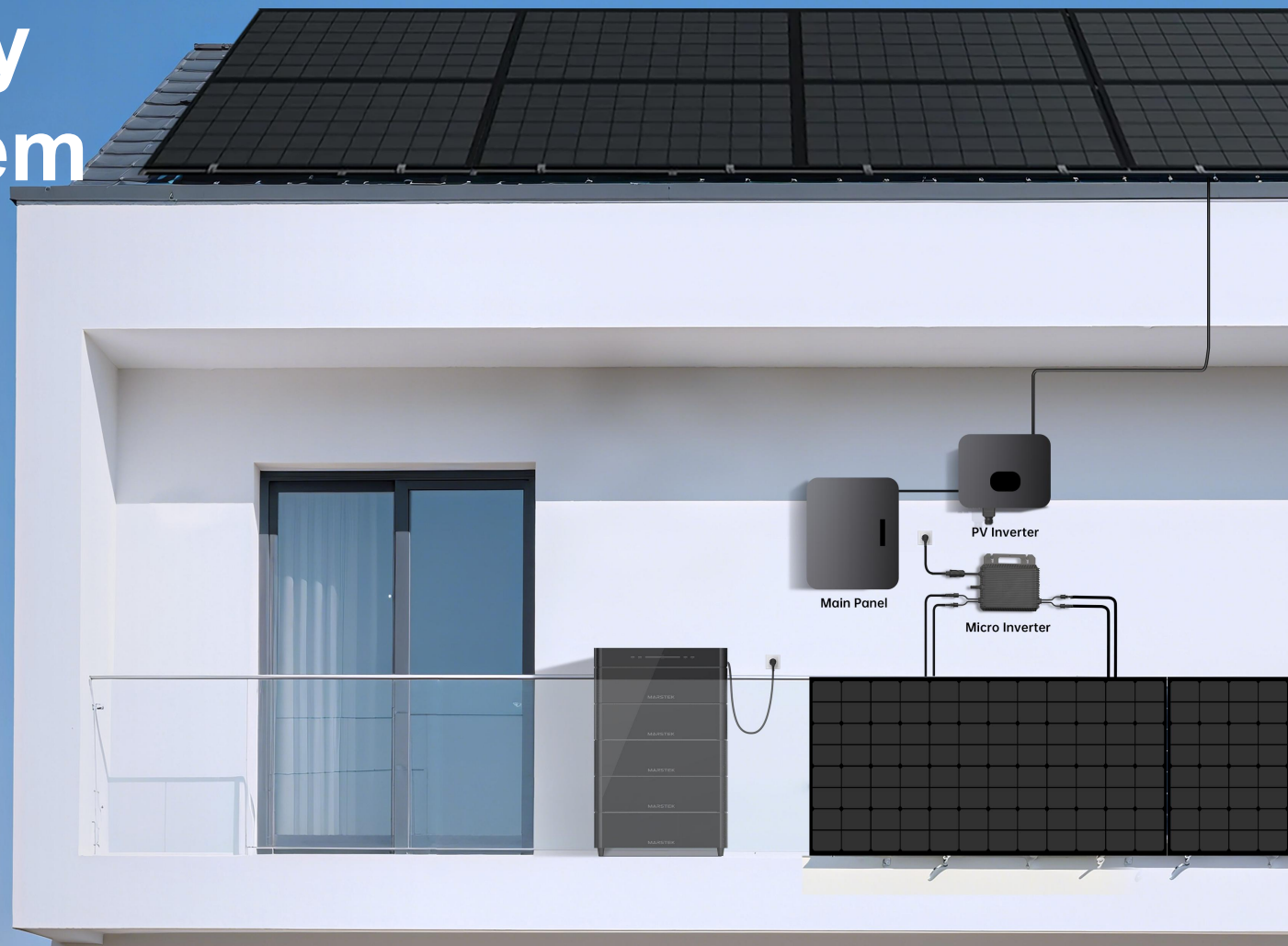
5 Minutes



Compatible with Any Existing Solar System

Seamless Integration

No rewiring, no upgrades, just more solar utilization.

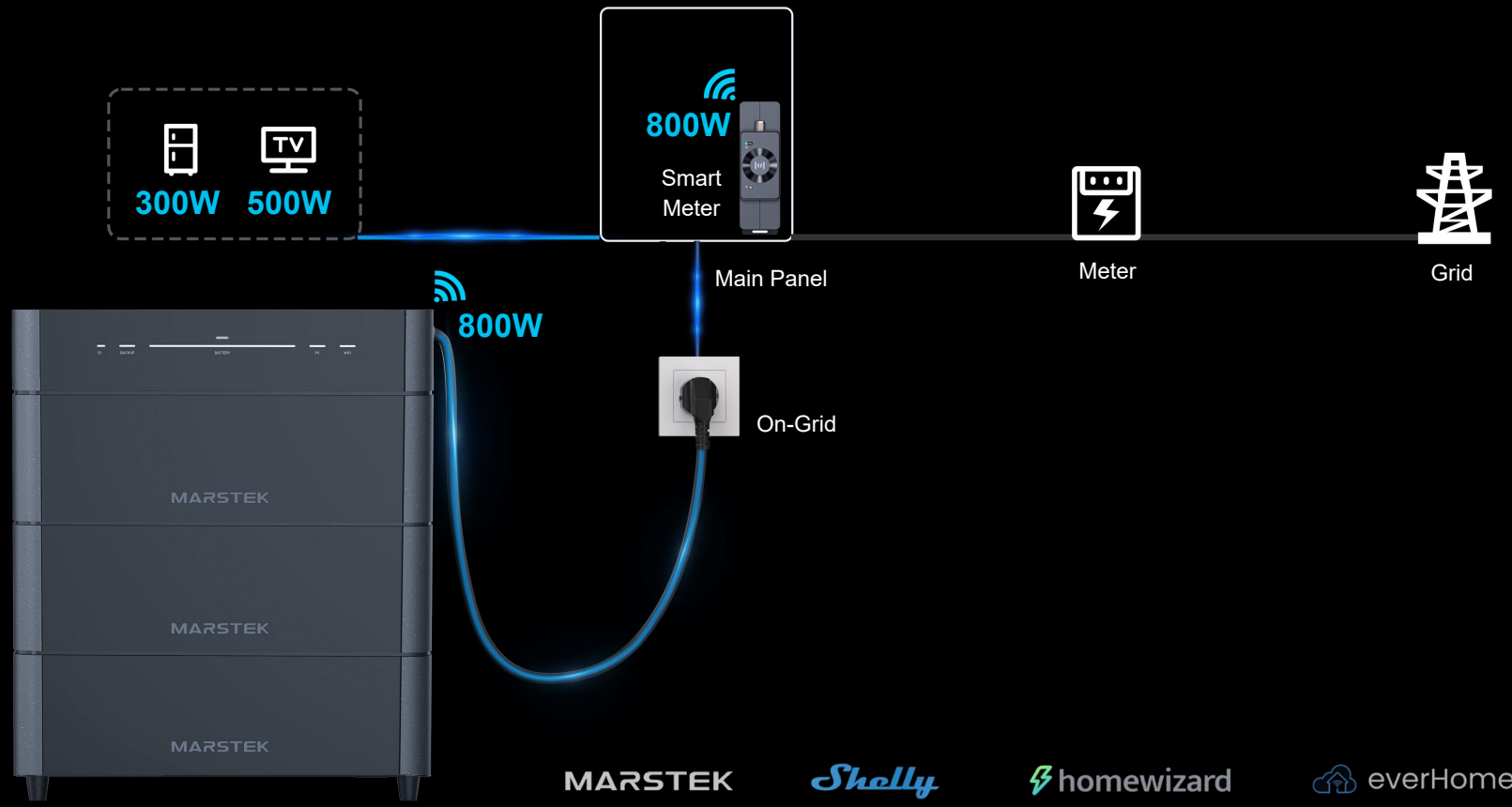


Anti Feed-in with Smart Meter

Compatible with **MARSTEK / Shelly / Homewizard / Everhome** Smart Meter

100%

Self-Consumption



MARSTEK Shelly homewizard everHome



AI Optimization

TOU Management for Cost Savings

Command with MARSTEK App

Sub-30dB

Silent Operation

IP65

Waterproof & Dustproof

-20°C

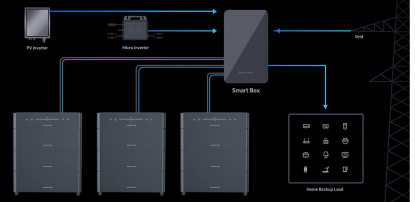
-20°C to 60°C



10 Years
Warranty

-20°C to 60°C
Reliable Power from

Whole-Home Backup
With MARSTEK SmartBox



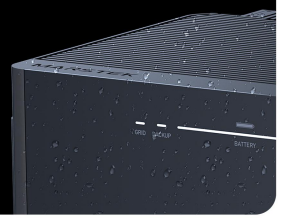
1.2kW Backup
Peak at 1.44kW



Plug & Play
Installation in Just
5 Minutes



IP65
Waterproof & Dustproof



MARSTEK VENUS A

Plug-and-Play | Max. 2.4kW PV Input | 4 MPPT



Max 2.4kW from PV
Max 1.5kW from Grid

Compatible with Any Existing Solar System
Seamlessly Integrate
with Your Existing Solar Setup





1.5kW
Bidirectional Power

EPS Switchover in 15ms

AI Optimized
TOU Management
for Cost Savings

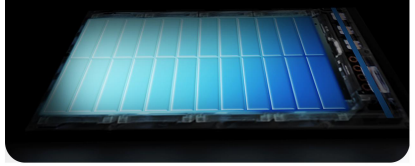


Anti Feed-in
With Smart Meter



Sub-30dB
Silent Operation

6000+ Cycles
Long-Lasting LFP Cells



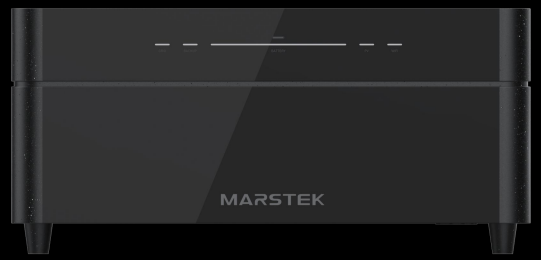
Modular Design
Up to 5 Units
12.72kWh



MARSTEK
Power Anywhere & Anytime

VENUS A

All-in-One 2.4kW 4 MPPT Balcony ESS with 1.5kW AC-Coupling



Specification Type		Host Specifications Model: Venus A
PV Input	Maximum Input Power	2400W Max
	MPPT Startup Voltage	22V
	Operating Voltage Range	16V ~ 60V
	Nominal Input Current (Single Channel)	16A
	Maximum Input Short-Circuit Current (Single Channel)	20A
	MPPT Track Number	4
	MPPT Efficiency	99.80%
On-Gird Input	Maximum Input Power	1500VA
	Nominal Grid Voltage	230V@50Hz
	Nominal Grid Output Current	6.53A
	Power Factor	> 0.99
	THDi	< 3%
On-Gird Output	Nominal Output Power	1500VA
	Nominal Grid Voltage	230V@50Hz
	Nominal Grid Output Voltage	3.48A / 6.53A
	Power Factor	> 0.99
	THDi	< 3%
Off-Gird Output	Nominal Output Power	1200VA
	Nominal Output Power	1440VA, 60s
	Nominal Output Current	5.22A
	Nominal Output Voltage	230V@50Hz
	THDu (Linear load)	< 3%
Battery Info	Nominal Voltage	41.6V (13S)
	Capacity	2.12kWh
	Cycle Life	> 6000 (25°C)
	Battery Chemistry	LiFePO4
	DoD (Depth of Discharge)	90%
Efficiency	Max. Efficiency (Battery to AC)	> 94.5%
Protection	Protection Class	I
	Overvoltage Category	DC Ⅱ/AC Ⅲ
General Info.	Dimensions	398*285*168mm
	Net Weight	24kg
	Gross Weight	26kg
	Ambient Temperature Range	-20 ~ +60℃ (Storage: -30 ~ +85℃)
	Relative Humidity	0-95%
	IP Rating	IP65
	Cooling Method	Natural Cooling
	Maximum Altitude	2000m
	Grid Connection	PEOP-B-M(B)
	Photovoltaic Connection	MC4
	Off-Grid Port	European Socket
	Display	LED
	Communication	Bluetooth, WFI, RS-485(RJ45) & Ethernet

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Power Anywhere & Anytime

VENUS A

All-in-One 2.4kW 4 MPPT Balcony ESS with 1.5kW AC-Coupling





Specification Type		Extral Battery Specifications
		Model：EBM
Battery Info	Nominal Voltage	41.6V (13S)
	Battery Capacity	2.12kWh
	Cycle Life	> 6000 (25°C)
	Battery Chemistry	LiFePO4
	DoD (Depth of Discharge)	90%
	Number of Battery Modules	0 ~ 5PCS
	Total System Energy Capacity	2.12kWh ~ 12.72kWh
Efficiency	Max. Efficiency (Battery to AC)	> 94.5%
Protection	Protection Class	I
	Overvoltage Category (OVC)	DC Ⅱ/AC Ⅲ
General Info	Dimensions	398*285*108mm
	Net Weight	17kg
	Gross Weight	19kg
	Ambient Temperature Range	-20 ~ +60℃ (Storage: -30 ~ +85℃)
	Relative Humidity	0 - 95%
	IP Rating	IP65
	Cooling Method	Nature Cooling
	Maximum Altitude	2000m
	Stacking Interface	Liu-Style

MARSTEK

THANKS!

Contact Us

Mail: info@marstekenergy.com

Web: marstekenergy.com

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