

MARSTEK VENUS A

All-in-One 2.4kW 4 MPPT Balcony ESS with 1.2kW AC-Coupling

Powerful Balcony Solar Storage System

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



398*285*108mm

AC-Coupled Energy Storage System

Plug-and-Play

1.2kW 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

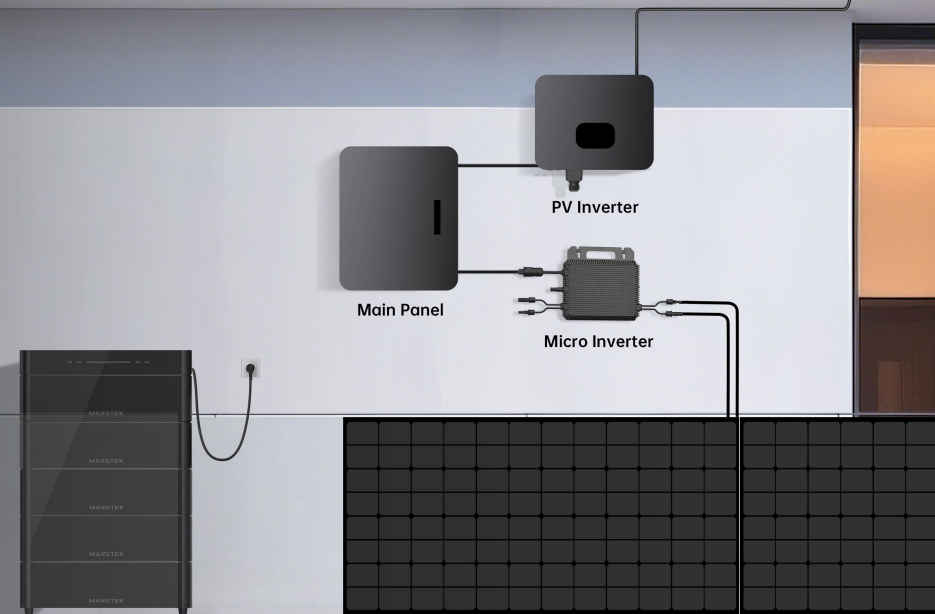
5 Minutes



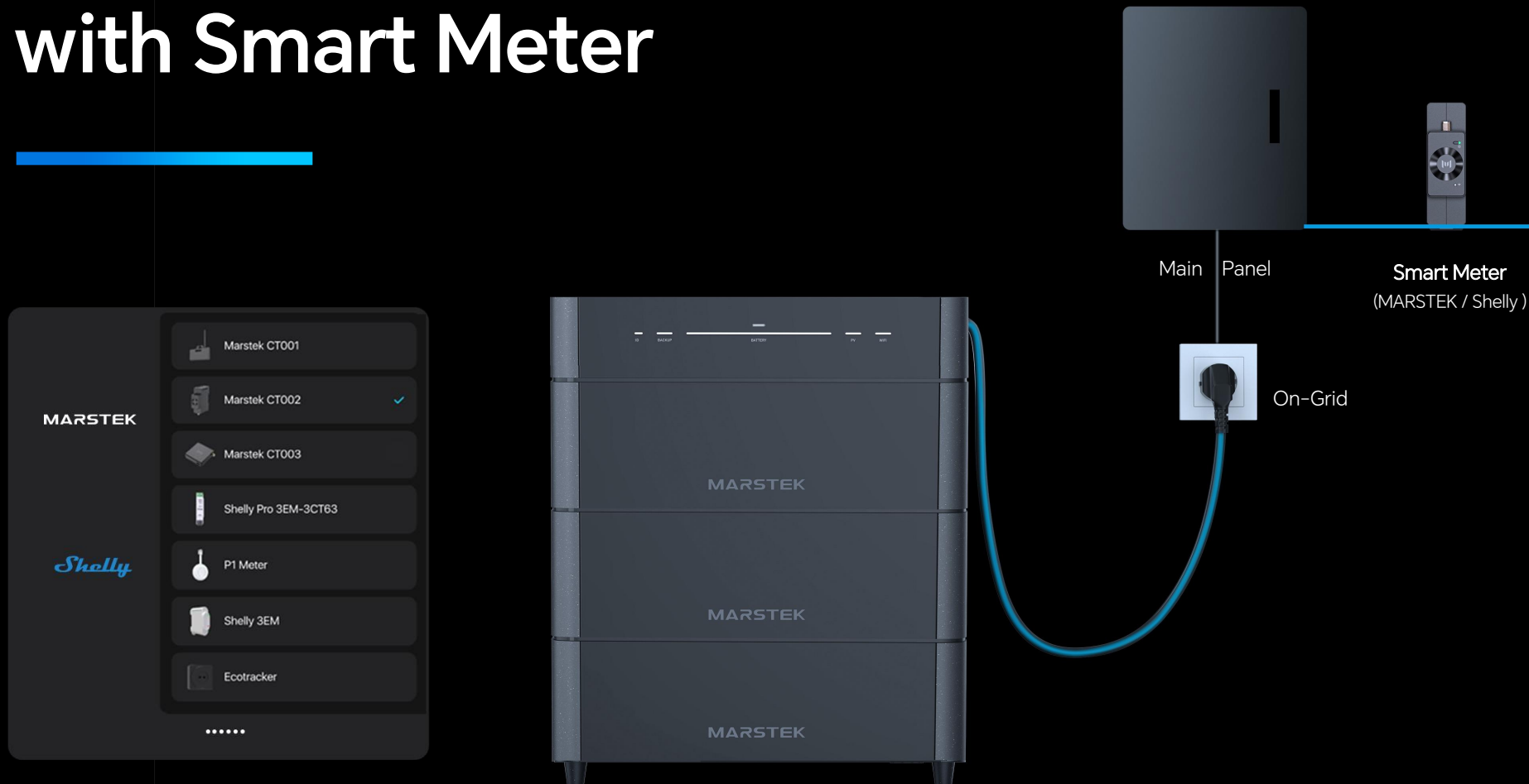
Compatible with Any Existing Solar System

Seamless integration

No rewiring, no upgrades, just more solar utilization.



Anti Feed-In with Smart Meter



AI Optimization

TOU Management for Cost Savings
Command with MARSTEK App



Sub-30dB

Silence Operation

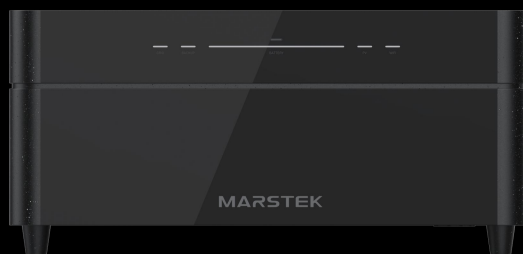
IP65

Waterproof & Dustproof



VENUS A

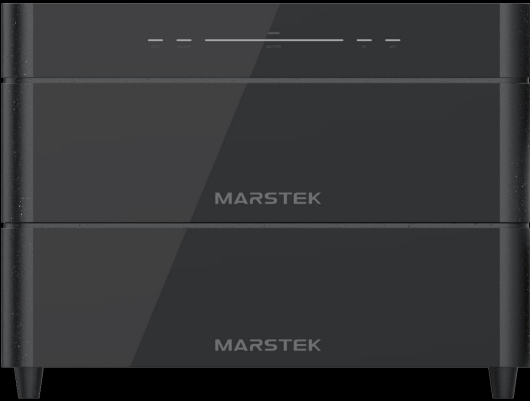
All-in-One 2.4kW 4 MPPT Balcony ESS
with 1.2kW AC-Coupling



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
On-Gird Input	MPPT Efficiency	99.80%
	Maximum Input Power	1200VA
	Nominal Grid Voltage	230V@50Hz
	Nominal Grid Output Current	5.22A
	Power Factor	> 0.99
On-Gird Output	THDi	< 3%
	Nominal Output Power	1200VA
	Nominal Grid Voltage	230V@50Hz
	Nominal Grid Output Voltage	3.48A / 5.22A
	Power Factor	> 0.99
Off-Gird Output	THDi	< 3%
	Nominal Output Power	1200VA
	Nominal Output Power	1440VA, 60s
	Nominal Output Current	5.22A
	Nominal Output Voltage	230V@50Hz
Battery Info	THDu (Linear load)	< 3%
	Nominal Voltage	41.6V (13S)
	Capacity	2.12kWh
	Cycle Life	> 6000 (25°C)
	Battery Chemistry	LiFePO4
Efficiency	DoD (Depth of Discharge)	90%
	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°C (Storage: -30 ~ +85°C)
	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

VENUS A

All-in-One 2.4kW 4 MPPT Balcony ESS
with 1.2kW 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°C (Storage: -30 ~ +85°C)
	Relative Humidity	0 ~ 95%
	IP Rating	IP65
	Cooling Method	Nature Cooling
	Maximum Altitude	2000m
	Stacking Interface	Liu-Style

THANKS!

Contact Us

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