#### MARSTEK VENUS E Gen 3.0

Plug-in AC Battery Energy Storage System



Industrieweg 32

4301 RS, Zierikzee

06-10921115

#### Plug & Play

2.5kW

Input

800W / 2.5kW

Output

5.12kWh

Capacity





# Backup Essential Loads

Max.

2.5kW Output

Switchover in **15ms** 







#### Al Optimization Mode

#### **Maximize Lower Bill**

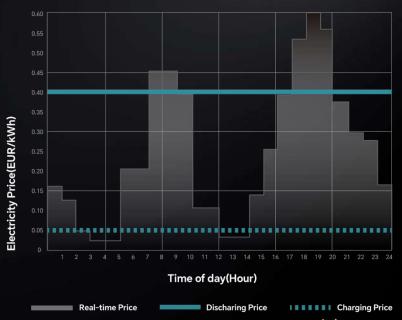
For residential users, Marstek Venus utilizes AI models to perform comprehensive big-data analysis of the entire home energy system status, real-time electricity pricing, and load patterns,then calculate the dynamic charging / discharging strategy for the maximiaze saving.



#### Manual Mode

#### **Profit From TOU**

For enterprise users, manually configure charging / discharging periods and power based on time-of-use pricing(TOU) agreed with grid operators, enables the maximum profit.

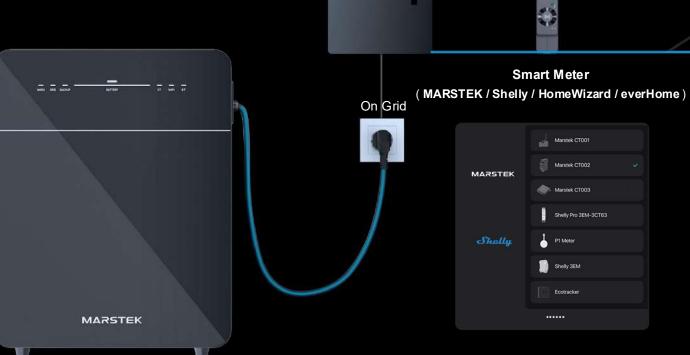




#### **Anti Feed-in**

100%

Self-Consumption



Main Panel

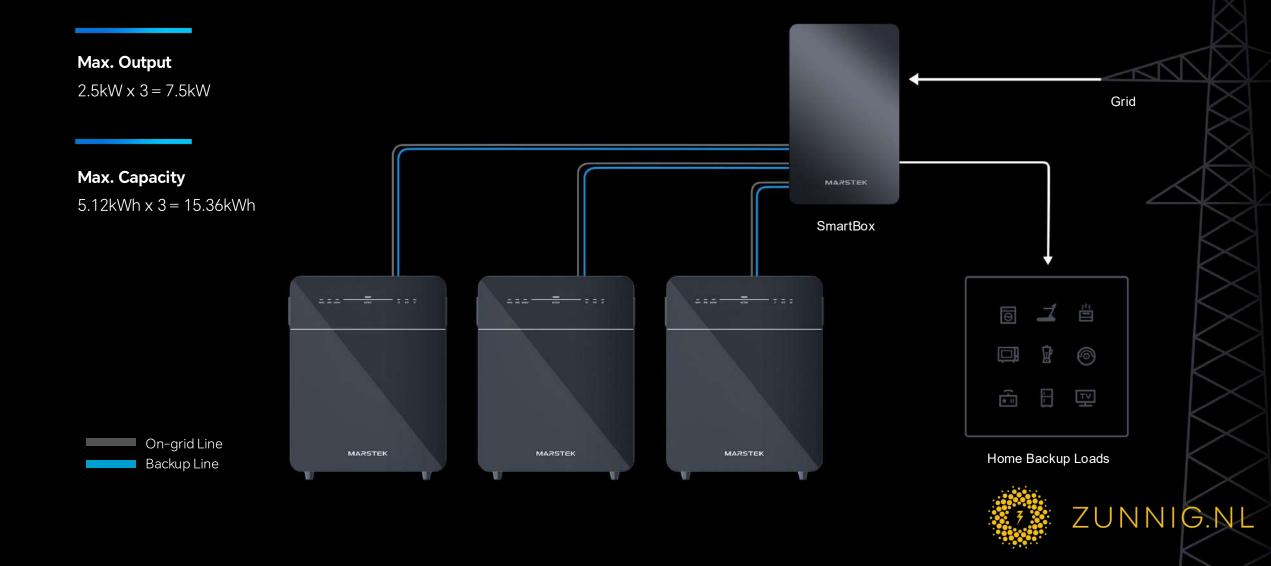
CT002



## **Supports Multiple VENUS-E Grid Connection**

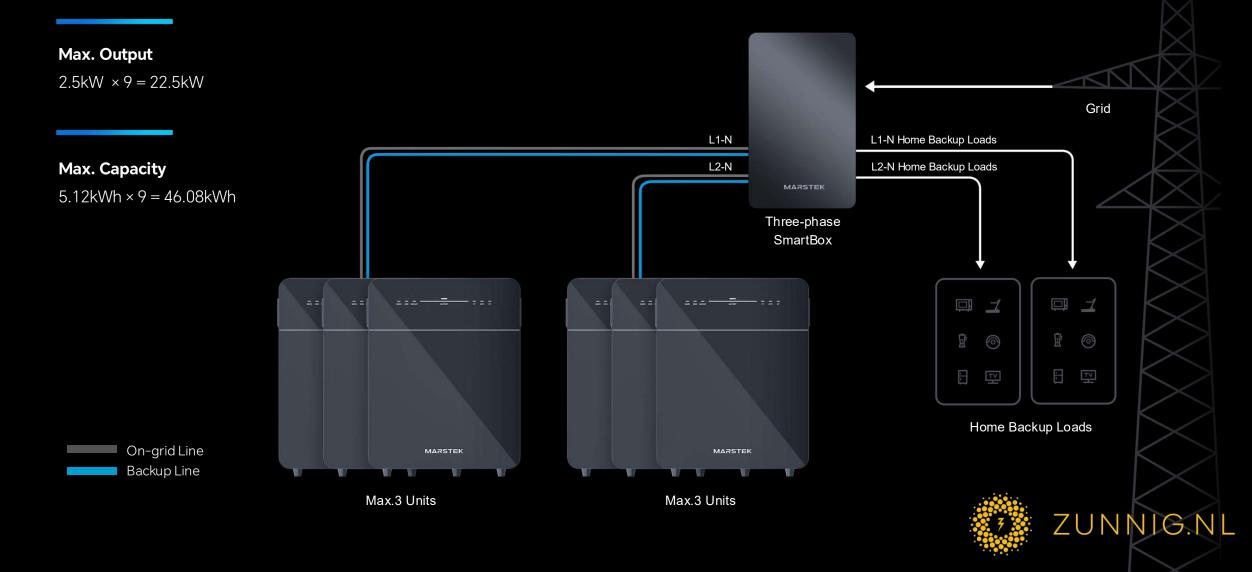


## Single-phase Backup ESS



#### Three-phase Backup ESS

Up to 3 units in parallel for every single-phase grid



#### Reliable and Long-lasting Battery

LFP Storage Battery

6000+

15

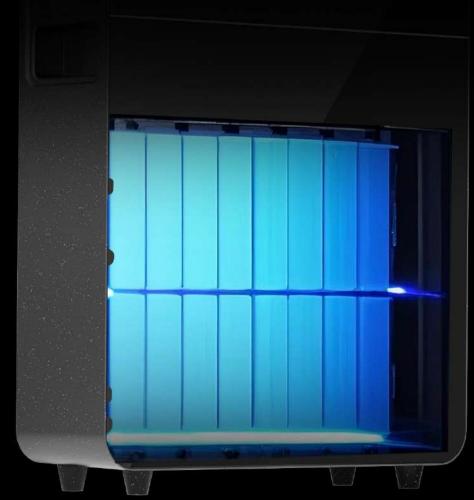
Life Cycles

Years Lifespan

#### **Intelligent BMS**

6

**Protection** 





#### **Seamless Integration with External EMS**

Open API / Modbus Protocol

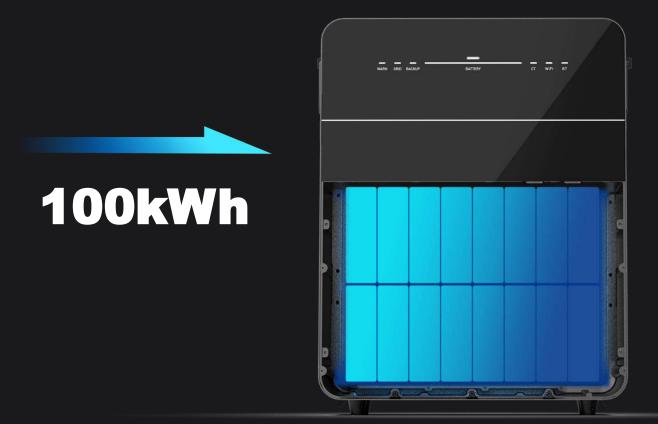
Integrated with LAN / RS485 / Wi-Fi / Bluetooth





# 85% Round-Trip Efficiency Where Less Energy Waste = More Profit

DoD > 90% | Battery-AC Efficiency > 93.5%



85kWh



#### VENUS E Gen 3.0 — Key Upgrades over Gen 2.0

## Integrated PCB Design

50% Less Wiring
PCS Efficiency > 98%



## Upgraded 100Ah Prismatic Cell

Higher Strength, Greater Safety Better Heat Dissipation



## Thermally Conductive Potting

Enhanced Thermal Management
Superior Shock & Moisture Protection



# Unibody Aluminum Die-Cast Housing

Higherz Strength Greater Durability





## Smaller. Lighter. More Efficient.

The Best AC Battery, Now Even Better



#### **VENUS E Gen 3.0**

- 1. Integrated PCB: 50% less wiring, +5% round-trip efficiency
- 2 Brand New Design
- 3、38.5% Smaller, 7.4% Lighter
- 4. Premium Aluminum Die-Cast Housing
- 5、Dual RJ45: RS485 & Ethernet
- 6. High Performance, High Density New Battery Cells
- 7、Thermally Conductive Potting



#### **VENUS E Gen 2.0**

- 1. Multiple PCB Boards with Complex Wiring, Higher Energy Loss
- 2. Traditional Right-Angle Design
- 3. Larger & Heavier Form Factor
- 4. Steel Housing
- 5. Single 5-pin RS485 Port

