



# VALIN Balcony Solar System

Excellent Quality, Intelligent Manufacturing

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# 01

## What is VALIN Balcony Solar System?

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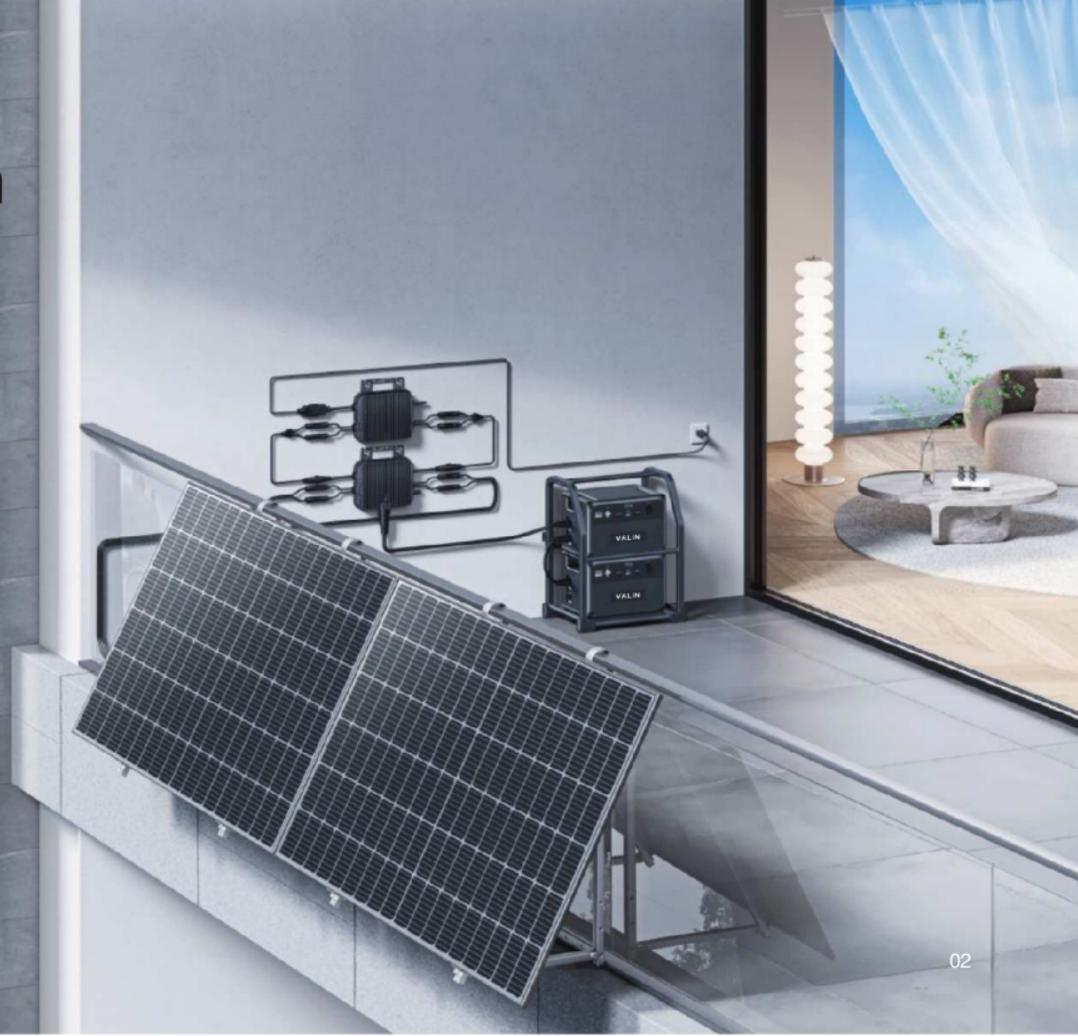
# VALIN Balcony Solar System

## The 1st Comprehensive Balcony Power Solution



VALIN Balcony Solar System is a highly efficient grid-tied energy storage system that consists of the solar panel, solar charge controller, microinverter, and battery. It stores extra solar energy generated during the daytime and provides power through the night, effectively reducing your peak-hour energy costs and cutting down your carbon footprint.

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# How it works?



1

Solar panel captures the solar energy during the day.

»

2

Solar charge controller optimizes the conversion efficiency.

»

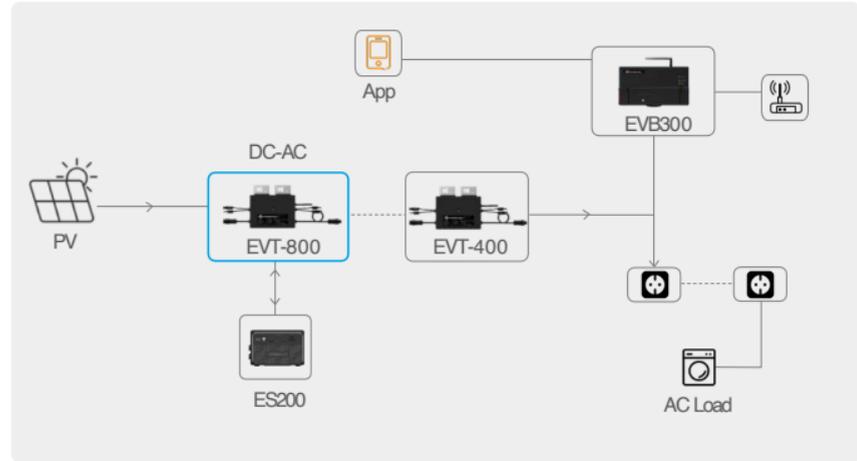
3

Microinverter converts the DC electricity into AC to power your devices.

»

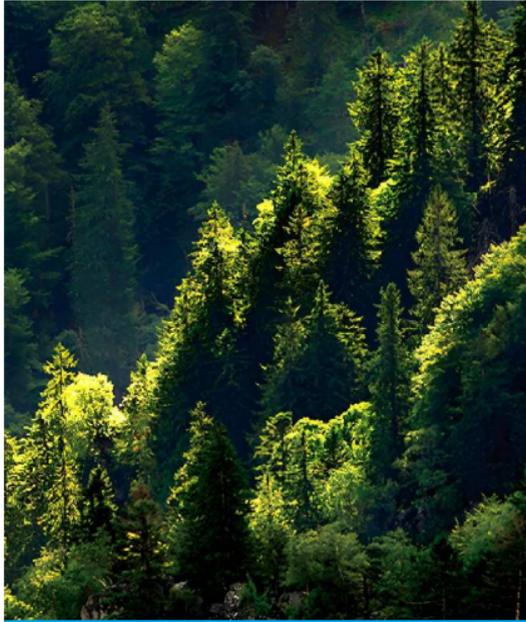
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Surplus energy stored in the battery for peak-hour use.

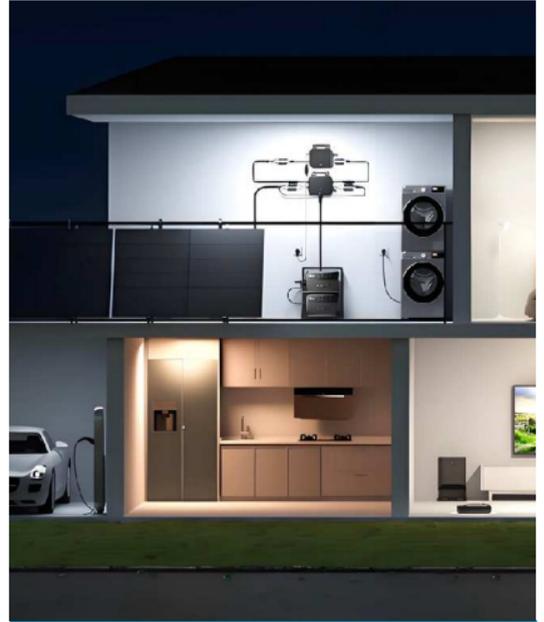




**SAVE ON  
BILL**



**LOWER CARBON  
EMISSIONS**



**POWER THROUGH  
THE NIGHT**

# Affordable & Renewable Energy

**0%**  
VAT



**Up to 750€**  
Regional Subsidies



**Additional  
Incentives**  
for Bundle Case

Heat  
Pump

EV

Balcony  
Solar  
System

\* The amount depends on regional guidelines and is subject to change anytime.  
For further details, please inquire with your local authorities directly.

# 02

## Why VALIN Balcony Solar System?

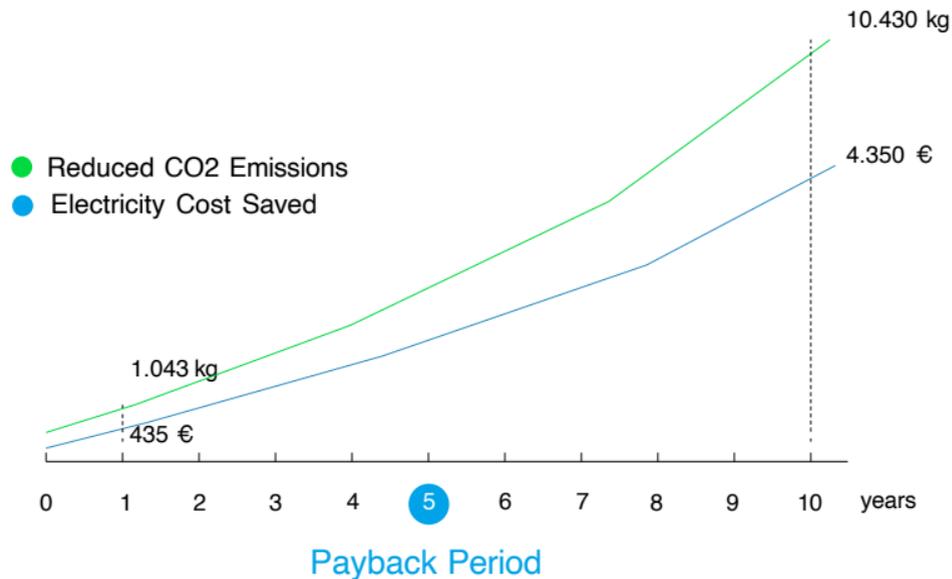
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# Save up to 4.350 € for a 10-year Use

## Your Budget-Friendly Energy Solution

By storing the extra solar energy (up to 4,3 kWh) generated during the day and feeding back to your home for night-time use, you can save approximately 435 € per year on energy costs, meaning that your system can pay for itself in 5 years!



\* For reference ONLY. The actual savings may vary due to various factors, such as power consumption and local electricity price.



## Up to 98% High Efficiency Minimize Power Loss

The EVT-800 microinverter converts the solar panel's direct current (DC) into alternating current (AC), which can be fed into the grid and ready to juice up household devices directly and efficiently, bringing extended runtime for your appliances.



Dual MPPT  
Solar Charge Controller



Higher Efficiency  
than Single Controller



Energy  
Loss

# High Power Density Maximum Solar Harvest

Other Brands Solar Panel

**176W/ m<sup>2</sup>**  
Surge Power Density

VALIN Solar Panel

**180W/ m<sup>2</sup>**  
Surge Power Density



For reference ONLY.



## IP65–rating Protection Durability and Safety Guaranteed



The balcony solar system is water and dust resistant to maintain excellent performance on your balcony. It also comes with the LiFePO<sub>4</sub> battery for a prolonged lifespan and a 10-year warranty\* to spare you a world of hassle.

\* The warranty for ES200 battery is 5 years.



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## Quick Setup in Minutes



1-2 Person (s)



Space-saving



DIY Installation



Plug and Play

# Smart Control with Balcony Solar System App



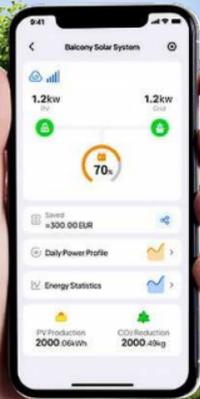
Track Solar Energy Generation



Stay Informed About Your Savings



Monitor Real-time Power Consumption



# Fits Anywhere The Sun Shines

Balcony of Flat



Balcony of House



Backyard and Garden

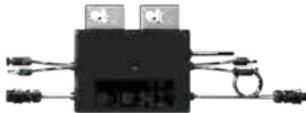


# 03

## Specifications

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EVT-800 Microinverter			
Rated Output	800W	Maximum Input (PV)	1000W
Rated Output Voltage	230V	MPPT Voltage Range	18-60V
Weight	4.1kg/9lb	MPPT Efficiency	99%
Connection Type	Bluetooth & W-Fi	Peak Efficiency	96.5%
Ingress Protection	IP67	Dimensions	235x227x47mm (9.2x8.9x1.85in)



ES200 Battery			
Capacity (1 ES200 battery)	2,000Wh (314Ah)	Battery Scalability	4,000Wh with Two ES200 Batteries
Battery Type	LiFePO4	Weight	27.9kg/61.5lb
Operating Temperature	-20°C-45°C	Noise Emission	<45dB
Ingress Protection	IP65	Battery Life Cycles	3,000+ Cycles to 80% Original Capacity



Flexible Panel



Glass Panel

Solar Panel			
Flexible Panel		Glass Panel	
Model No.	NENM210	Model No.	NENM410
PV Input Power	210W	PV Input Power	410W
Cell Type	PERC MONO	Cell Type	PERC MONO
Protection Rating	IP68	Ingress Protection	IP68
Wind Resistance Rating	37m/s (83 mph)	Wind Resistance Rating	37m/s(83 mph)
Dimensions	1065mmx1065mmx3mm (42.72 inx42.72 inx0.12 in)	Dimensions	1722mmx1134mmx30mm (67.8 inx44.6 inx1.18 in)
Connect Port	MC4	Connect Port	MC4
Weight	3.95kg/8.71lb	Weight	20.8kg/45lb
Open Circuit Voltage	51V	Open Circuit Voltage	37.4V
Voltage at Pmax	48.6V	Voltage at Pmax	31.42V
Short Circuit Current	5.52A	Short Circuit Current	13.84A

# 04

## Pre-order Options



# Choose Your Solutions

0% VAT

01

## The Whole System



- 210W Flexible Panel x 4
- EVT800-R Microinverter x 1
- ES200 Battery x 1/2
- Adjustable Mounting Bracket x 4



- 410W Glass Panel x 2
- EVT800-R Microinverter x 1
- ES200 Battery x 1/2
- Adjustable Mounting Bracket x 2

0% VAT

02

## With Battery Storage

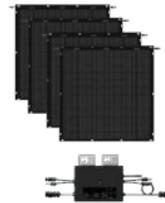


- ES200 Battery x 1/2
- EVT800-R Microinverter x 1
- Adjustable Mounting Bracket x 4

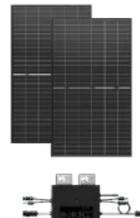
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03

## Without Battery Storage



- 210W Flexible Panel x 4
- EVT800-R Microinverter x 1



- 410W Glass Panel x 2
- EVT800-R Microinverter x 1