VaySunic
Small Things Matter.

PRODUCT CATALOGUE 2026

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HEADQUARTERS

Munich, Germany

VaySunic New Energy GmbH
Marketing, technology and service centre

OPERATIONS

China

R&D and manufacturing operations centre
6,000 m² manufacturing base

LOCAL TEAMS

France · Thailand · Brazil

Sales, technical support and service in the local language

ONE ENERGY ECOSYSTEM

Hardware generates power. Software defines energy.

SolarCore · SolarHub · PowerCube · ChargeFlow · EnergyPilot · VIP Cloud

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VaySunic
Small Things Matter.

PRODUCT CATALOGUE 2026

ONE ENERGY ECOSYSTEM

Clean Energy for Every Home

Solar · Storage · Charging · EMS · Cloud



SolarCore SolarHub EnergyPilot PowerCube VIP Cloud ChargeFlow

HEADQUARTERED IN GERMANY

Munich · China · France · Thailand · Brazil

ABOUT VAYSUNIC

Micro Energy Systems for Homes Worldwide

VaySunic New Energy GmbH is headquartered in Munich, Germany, home to our marketing, technology and service centre. Our R&D and manufacturing operations centre is in China, and local teams in France, Thailand and Brazil work with distributors and installers on the ground.

We develop the full stack ourselves, from power electronics and control algorithms to communication, EMS, cloud platform and app, and we build it at our own manufacturing base.

12 Countries with VaySunic systems in operation	**50,000+** Connected homes	**40+** Patents
15+ Brands served as OEM / ODM partner, including 3 listed companies	**5** Countries with our own teams: Germany, China, France, Thailand, Brazil	**6,000 m²** Own manufacturing base in China



Germany · VaySunic New Energy GmbH

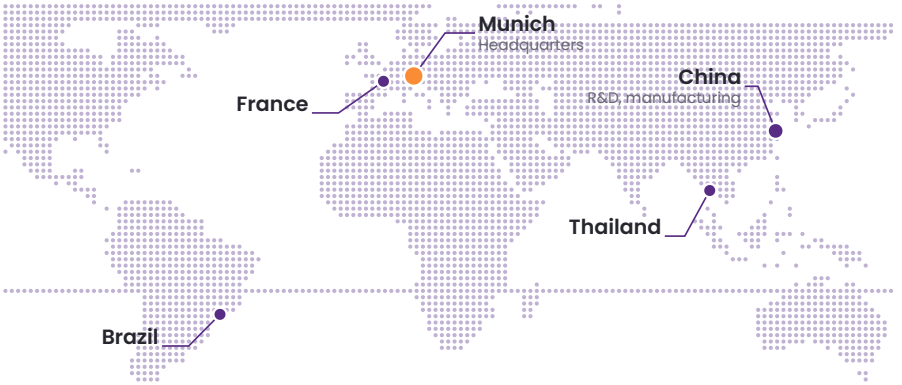


China · R&D and manufacturing

GLOBAL PRESENCE

Local Teams, Local Standards

Distributors and installers get support in their own language and time zone, and our products are designed to the standards of the markets we serve.



- **Munich, Germany** — Headquarters: marketing, technology and service centre
- **China** — R&D and manufacturing operations centre
- **France** — Local team for France and Europe
- **Thailand** — Local team for Southeast Asia
- **Brazil** — Local team for Latin America

Standards by Region

Selected standards across the range

Europe	EN 50549-1 / -10 · VDE-AR-N 4105 (DE) · CEI 0-21 (IT) · C10/11 (BE) · RED · EN 18031-1
United Kingdom	G98 · UKCA · PSTI
Southeast Asia	PEA / MEA (TH)
Latin America	ABNT NBR 16149 / 16150 · INMETRO (BR)
International	IEC 62109-1 / -2 · IEC 61727 · IEC 62116 · IEC 62619 · UN 38.3

Certification status varies by model and market. Contact VaySunic for current certificates.

ONE ECOSYSTEM

Six Layers, One Home Energy System

Each VaySunic product works on its own and gets smarter with the others. EnergyPilot coordinates solar, storage and charging at the distribution board, and VIP Cloud shows the whole system in one app.

1

SOLAR

SolarCore · SolarKit

Microinverters from 350 to 2,250 W with 1, 2 or 4 MPPTs, and the VSK-800W plug-in balcony kit.[1]

2

STORAGE

PowerCube · SolarHub

Hybrid microinverters from 800 to 3,000 W with stackable LFP storage, 2.5 to 27.5 kWh per system.

3

CHARGING

ChargeFlow

7, 11 and 22 kW smart wallboxes that charge the car from solar surplus with EnergyPilot.

4

HEAT

Heat Pumps and Air Conditioners

Third-party heat pumps, air conditioners and water heaters can join EnergyPilot, assessed per project.

5

EMS

EnergyPilot

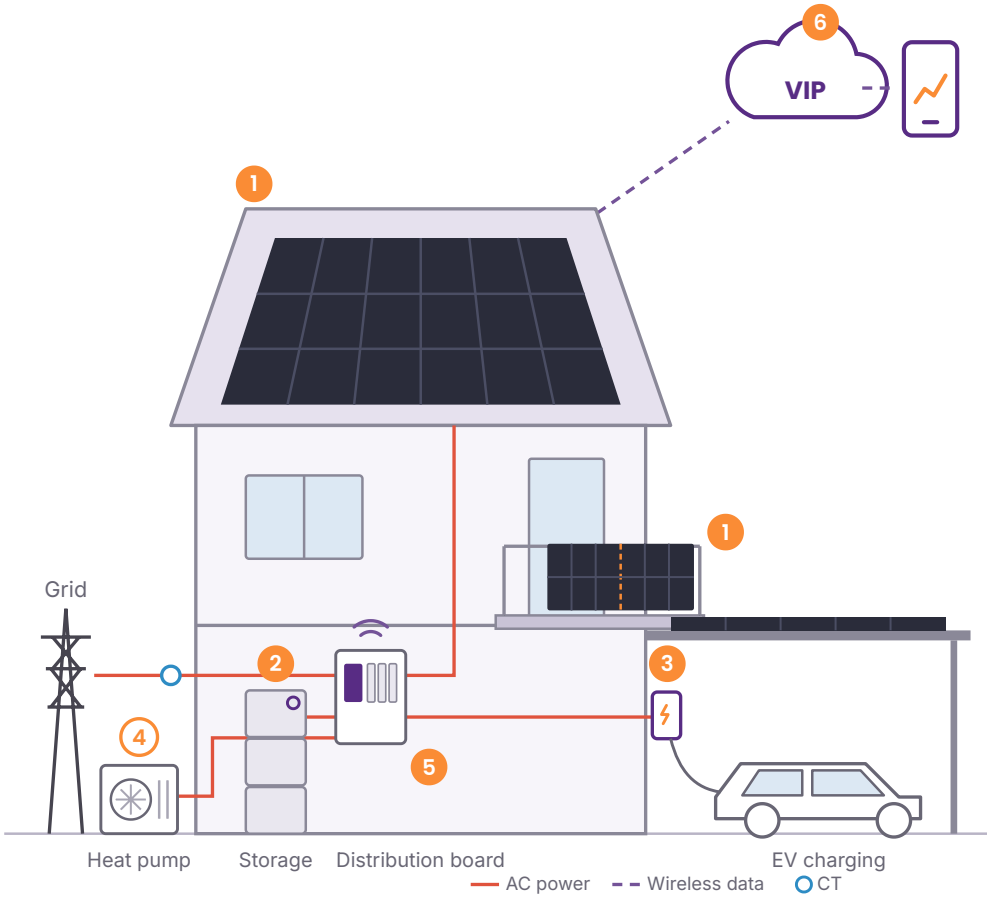
Local EMS controller with built-in metering: zero export, storage dispatch and EV surplus charging, even without internet.

6

CLOUD

VIP Cloud

One app for monitoring, AI scheduling, solar forecast and dynamic tariffs, with OCPP for charging.



1 Solar 2 Storage 3 Charging 4 Heat 5 EMS 6 Cloud

STEP 1

Plug In

Start with an 800 W balcony kit or microinverter.[1]

STEP 2

Store

Add PowerCube, from 2.5 kWh up to 27.5 kWh.

STEP 3

Connect

Add ChargeFlow, EnergyPilot and VIP Cloud.

1 Plug-in connection only where local regulations allow.

APPLICATIONS

From 800 W Plug-in to Whole-Home

Start where the home and the local rules allow, then add capacity, charging and control. Every storage system uses the same VB5000D battery pack, and everything runs in one app.



01 · BALCONY

Balcony and Plug-in Solar[1]

Modules go straight into the four MPPT inputs, and the battery covers the evening. For solar only, choose the SolarKit VSK-800W.

TYPICAL CONFIGURATION[3]

PowerCube VA800D + (0–1) × VB5000D

2.5–7.5 kWh

800 W	2,000 W	3,000 W
AC output	Solar input	Backup[2]



02 · GARDEN

Garden, Patio and Carport

Ground-mounted or carport modules feed PowerCube, which supplies the home day and night.

TYPICAL CONFIGURATION[3]

PowerCube VA2000D + (1–2) × VB5000D

7.5–12.5 kWh

2,000 W	3,000 W	3,000 W
AC output	Solar input	Backup

800–3,000 W	2.5–27.5 kWh	≤ 10 ms	3+
AC output, one product family	Storage per system	Backup switchover	Systems in parallel

1 Plug-in connection only where local regulations allow; a dedicated protected circuit in the distribution board is recommended.

2 Up to 3,000 W with PV and battery together, or with 7.5 kWh or more installed. Battery alone at 2.5 kWh: 1,200 W.

3 Typical configurations are for guidance only. Size each system to the site and local regulations.

GROW BLOCK BY BLOCK

Add Storage, Charging and Backup

Retrofit storage to an existing PV system, charge the car from solar, and keep essential loads running when the grid is weak.



03 · ROOFTOP AND RETROFIT

Rooftop and Retrofit

Whole-home storage for rooftop solar, or add PowerCube and EnergyPilot to an existing PV system.

TYPICAL CONFIGURATION[3]

PowerCube VA3000D + (3–5) × VB5000D

17.5–27.5 kWh

3,000 W	3,000 W	3,000 W
AC output	Solar input	Backup



04 · EV CHARGING

Solar EV Charging[4]

ChargeFlow follows the solar surplus, and PowerCube can boost charging on a small grid connection.

TYPICAL CONFIGURATION[3]

ChargeFlow + EnergyPilot + SolarCore

7 / 11 / 22 kW

6 A	6 modes	OCPP
Min. current	Charging	Via VIP Cloud



05 · WEAK GRID

Homes with Unstable Grids

SolarHub VH2000D + (1–3) × VB5000D, 5–15 kWh. Backup switches over in 10 ms or less and keeps essential loads running during outages.

4 Smart charging needs EnergyPilot at the grid connection; Battery Boost also needs PowerCube or SolarHub storage.



FROM PLUG-IN TO WHOLE-HOME ENERGY STORAGE

PowerCube Series GEN 2

VA800D / VA2000D / VA2500D / VA3000D + VB5000D

Expand as Your Energy Needs Grow

FROM
800–3,000 W
Plug-in to whole-home[1]

UP TO
3,000 W
Solar input, 4 MPPTs[2]

Hybrid
Microinverter with built-in battery

≤ 10 ms
Backup switchover

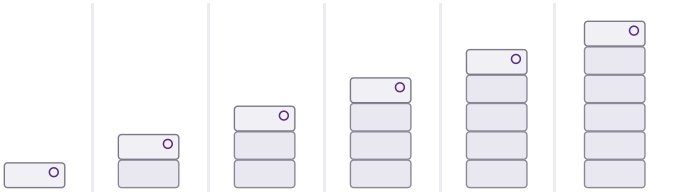
2.5–27.5 kWh
Modular storage, stackable[3]

AI
Smart energy management

1 800 W (VA800D) to 3,000 W (VA3000D). In some regions, systems up to 800 W may be plugged directly into a socket. Install strictly in line with local regulations; a dedicated protected circuit in the distribution board is recommended.
2 VA2000D, VA2500D and VA3000D. VA800D: up to 2,000 W.
3 2.5 kWh built into the VA unit, plus up to 5 × VB5000D packs of 5 kWh each.

Modular Storage One VA unit plus up to five VB5000D packs

New and existing packs can be mixed. Secure every stack with the anti-tip accessory. For more capacity, three or more systems can run in parallel.



Configuration	VA	VA + 1	VA + 2	VA + 3	VA + 4	VA + 5
System capacity	2.5 kWh	7.5 kWh	12.5 kWh	17.5 kWh	22.5 kWh	27.5 kWh
Battery-only AC output[4]	1,200 W	3,000 W	3,000 W	3,000 W	3,000 W	3,000 W

Safety and Durability

Aerosol Fire Suppression
Built into every battery module

Self-Heating[6]
Automatic cell heating in cold weather

12,000 Cycles[5]
Long-life LFP cells

IP66
Dust-tight and water-jet protected

15-Year Design Life
Built for long service

10-Year Warranty[7]
Standard product warranty

Key Specifications

Model	VA800D	VA2000D	VA2500D	VA3000D
Rated AC output	800 W	2,000 W	2,500 W	3,000 W
Max. PV input	2,000 W		3,000 W	
MPPTs / voltage range	4 / 18–60 V			
Backup (EPS) output	3,000 W continuous, 4,500 W peak (15 s), dedicated EPS port			
Built-in battery	2,508.8 Wh, $LiFePO_4$			
Battery pack VB5000D	5,017.6 Wh, 2,500 W (0.5C) · 450 × 253 × 323 mm, 41 kg			
VA dimensions / weight	450 × 210 × 290 mm / 26 kg			
Charge / discharge temp.	−20 to 55 °C, with self-heating[6]			
Communication	Wi-Fi (2.4 GHz), LAN · VIP Cloud			
Zero feed-in control	Via EnergyPilot local EMS controller (optional)			
Grid (selected)	EN 50549-1 / -10 · VDE-AR-N 4105 · CEI 0-21 · C10/11 · G98 · PEA / MEA			

4 AC output from the battery alone; PV makes up the rest. Grid output is capped by the VA model rating; backup output is 3,000 W on all models.
5 Measured under laboratory test conditions. Actual cycle life depends on operating conditions.
6 When the cell temperature is low, the battery automatically heats the cells into the operating range, for both charging and discharging.
7 Conditions apply. Refer to the VaySunic Limited Warranty for details. Certification status varies by market.

POWERCUBE · SMART FUNCTIONS

A Battery That Plans Its Own Day

Choose how PowerCube works in the VIP Cloud app. It can follow the sun, your tariff or a plan of its own, and it always keeps a reserve for power cuts.

Four Operating Modes

Set in the VIP Cloud app[1]

1 Manual

Charge or discharge at a power you set, or keep the battery idle, until it is full or reaches the reserve.

BEST FOR Getting ready for a storm or a planned outage
NEEDS PowerCube on its own

2 Smart

Solar covers the home first, the surplus charges the battery and the battery supplies the home in the evening.

BEST FOR Everyday use with as much of your own solar as possible
NEEDS PowerCube; EnergyPilot for zero export[2]

3 Schedule

Time slots to charge, self-use or discharge, for example charge in cheap night hours and discharge at the evening peak.

BEST FOR Time-of-use tariffs with fixed cheap and expensive hours
NEEDS PowerCube on its own

4 AI

VIP Cloud plans charging and discharging with dynamic tariffs, the solar forecast and your usage, and learns as it goes.

BEST FOR Dynamic tariffs and changing weather
NEEDS PowerCube and VIP Cloud (online)

Ready for a Power Cut

≤ 10 ms
Switchover to the backup (EPS) port

Up to 3,000 W
Backup output, 4,500 W for 15 s[3]

Backup Reserve
Kept in the battery for outages, set in the app

SEE IT LIVE

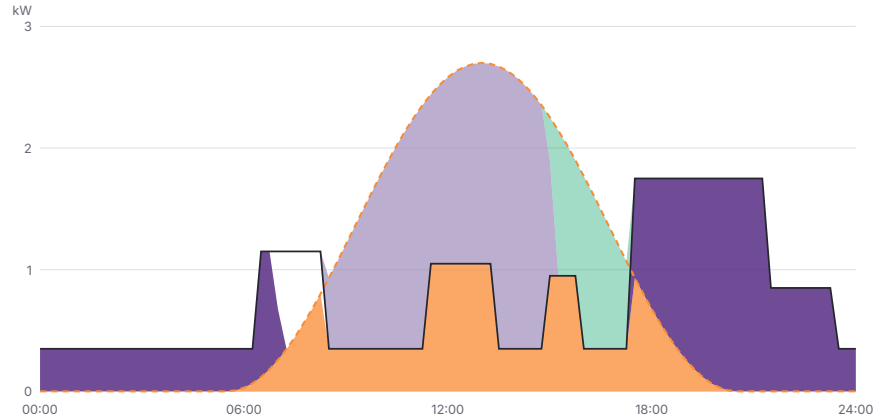
Try the four modes on our website

Pick a mode, change the settings and watch the day change: where the energy comes from and what it costs. **vaysunic.com/products/powercube**

1 Modes are those shown in the VIP Cloud app and may be refined with software updates. Available functions depend on the market.
2 Zero export or a set feed-in limit needs the EnergyPilot local controller at the grid connection.
3 With PV and battery together, or from 7.5 kWh. With only the built-in 2.5 kWh: 1,200 W.

One Day in Smart Mode

Illustration[4]



SOLAR USED AT HOME	WITHOUT A BATTERY	SELF-SUFFICIENCY
88 %	35 %	95 %
Of the day's solar, with the battery	The rest would go to the grid	Of the home's energy from its own solar

Smarter with the Whole System

Zero Export
With EnergyPilot: feed-in held at zero or a set limit

Car or Battery First
With ChargeFlow: choose where the solar surplus goes

Tariff-aware
Schedule and AI charge cheap, discharge at the peak

VIP Cloud
Live energy flow, settings and history in one app

Decides on Site
EnergyPilot keeps control local, even offline[5]

For Installers
Commission and support sites with VIP Professional

4 Illustration, not a measurement: PowerCube VA3000D with two VB5000D (12.5 kWh), about 3 kWp of solar on a sunny summer day, a typical family home and a 15% backup reserve. Results depend on season, system size and usage.
5 The internet is needed only for the VIP Cloud app and remote settings.



HYBRID MICROINVERTER FOR SOLAR AND STORAGE

SolarHub Series

VH800D / VH2000D / VH2500D / VH3000D + VB5000D

Start with Solar, Add Storage Anytime

FROM
800–3,000 W
Balcony to rooftop[1]

UP TO
3,000 W
Solar input, 4 MPPTs[2]

Hybrid
One unit for solar, battery and grid

≤ 10 ms
Backup switchover[3]

5–25 kWh
Optional battery storage[4]

AI
Smart energy management

1 Rated on-grid output 800 W (VH800D) to 3,000 W (VH3000D); backup output up to 3,000 W on all models. In some regions, systems up to 800 W may be plugged directly into a socket. Install strictly in line with local regulations; a dedicated protected circuit in the distribution board is recommended.
2 VH2000D, VH2500D and VH3000D. VH800D: up to 2,000 W.
3 Backup requires at least one VB5000D battery pack.
4 1 to 5 × VB5000D packs of 5 kWh each. Without a battery, SolarHub works as a PV microinverter.

Built for Outdoor Installation

IP66
Inverter and battery packs

-40 to 65 °C[5]
Inverter operating range

Fanless Design
Natural convection cooling

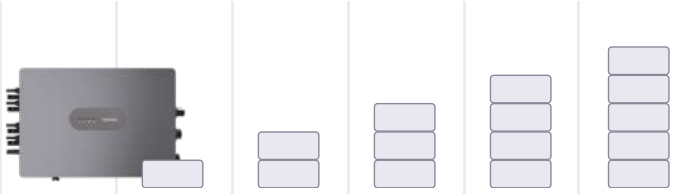
6.8 kg Wall-Mounted
Compact, 327 × 270 × 53 mm

Integrated Protection
Insulation, surge and residual current monitoring

Safe LFP Storage
Aerosol suppression and self-heating in every pack

Add Storage Anytime

Up to five VB5000D packs per system; packs can be mixed



Configuration	VH	VH + 1	VH + 2	VH + 3	VH + 4	VH + 5
System capacity	Solar only	5 kWh	10 kWh	15 kWh	20 kWh	25 kWh
Battery-only AC output[6]	–	2,500 W	3,000 W	3,000 W	3,000 W	3,000 W

Key Specifications

Model	VH800D	VH2000D	VH2500D	VH3000D
Rated AC output (on-grid)	800 W	2,000 W	2,500 W	3,000 W
Max. PV input	2,000 W		3,000 W	
MPPTs / voltage range	4 / 18–60 V			
Backup (EPS) output[6]	3,000 W continuous, 4,500 W peak (15 s), dedicated EPS output			
Battery	VB5000D, 1–5 packs, 5–25 kWh, $LiFePO_4$			
Grid charging	Up to 3,000 W in total with PV charging (requires VB5000D)			
Dimensions / weight	327 × 270 × 53 mm / 6.8 kg, wall-mounted			
Ingress protection	IP66 (inverter and battery packs)			
Communication	Wi-Fi (2.4 GHz), CAN (battery) · VIP Cloud			
Zero feed-in control	Via EnergyPilot local EMS controller (optional)			
Grid (selected)	EN 50549-1 / -10 · VDE-AR-N 4105 · CEI 0-21 · C10/11 · G98 · PEA / MEA			

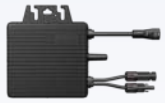
5 Output derates at high temperatures. Battery packs: −20 to 50 °C.
6 Requires at least one VB5000D. With PV and battery together, 3,000 W on all models; battery alone: 2,500 W with one pack, 3,000 W with two or more. Total on-grid output is limited by the VH model rating.
Certification status varies by market. Contact VaySunic for current certificates.



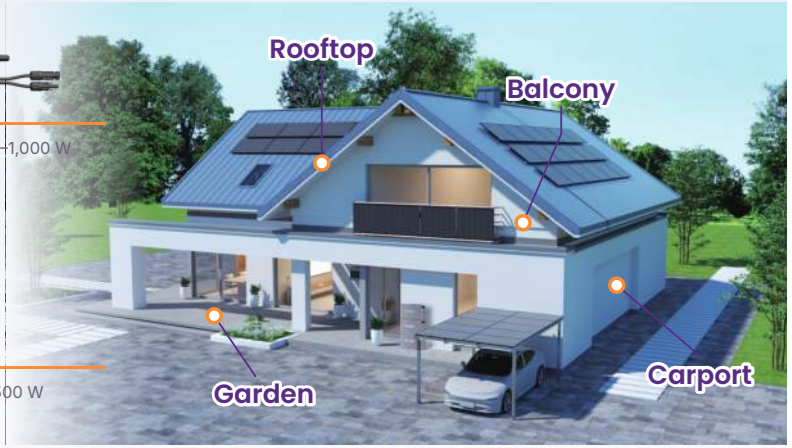
VM-P4 4 MPPTs · 2,000–2,250 W



VM-P2 2 MPPTs · 600–1,000 W



VM-P1 1 MPPT · 350–500 W



MICROINVERTERS FOR BALCONY, GARDEN AND ROOFTOP SOLAR

SolarCore Series

VM-P1 / VM-P2 / VM-P4

Solar Power, Module by Module

FROM
350–2,250 W
Rated output, 12 models

1 / 2 / 4
Independent MPPTs

800 W
Balcony plug-in model[1]

99.8%
MPPT efficiency

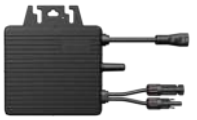
IP67
NEMA 6, metal housing

App
Monitoring via VIP Cloud

1 VM800WE-P2. In some regions, systems up to 800 W may be plugged directly into a socket. Install strictly in line with local regulations; a dedicated protected circuit in the distribution board is recommended.
Values were measured in the VaySunic laboratory under specific test conditions and may vary in actual use.

Product Family

Choose the platform by the number of modules



1 MODULE PER UNIT
VM-P1
Single modules on rooftops, fences, sheds and small balconies.



2 MODULES PER UNIT
VM-P2
Balcony and plug-in systems, including the 800 W model.



4 MODULES PER UNIT
VM-P4
Rooftop arrays, with fewer units and connections per kW.

Model	Rated output	MPPTs	Module power[3]	Peak efficiency
VM350WE-P1	350 W	1	280–470+ Wp	96.8%
VM400WE-P1	400 W	1	320–540+ Wp	96.8%
VM450WE-P1	450 W	1	360–600+ Wp	96.6%
VM500WE-P1	500 W	1	400–670+ Wp	96.6%
VM600WE-P2	600 W	2	240–410+ Wp	96.8%
VM700WE-P2	700 W	2	270–460+ Wp	96.8%
VM800WE-P2	**800 W**	**2**	**330–550+ Wp**	**96.8%**
VM900WE-P2	900 W	2	350–610+ Wp	96.6%
VM1000WE-P2	1,000 W	2	390–680+ Wp	96.6%
VM2000W-P4	2,000 W	4	400–670+ Wp	96.6%
VM2100W-P4	2,100 W	4	400–670+ Wp	96.6%
VM2250W-P4	2,250 W	4	400–700+ Wp	96.5%

Safety and Durability

-40 to 65 °C[2]
Operating range

Fanless Design
Natural convection

Low-Voltage DC
Max. 63 V per input

Galvanic Isolation
Isolated DC and AC

Global Compliance
Europe, APAC, LATAM

Zero Export
With EnergyPilot

Common Data

Max. input voltage / MPPT range	63 V / 16–60 V (VM-P4: 61 V / 20–60 V)
Max. input current per MPPT	18 A (short-circuit 25 A)
Nominal grid voltage / frequency	230 / 240 V (VM-P4: 220–240 V), 180–275 V / 50 / 60 Hz
Weight (P1 / P2 / P4)	1.75 / 3.22 / 5.1 kg
Communication / monitoring	Wi-Fi (2.4 GHz) / VIP Cloud

2 Output may derate at high temperatures.
3 Recommended module power per MPPT input. Check module Voc at the lowest site temperature against the maximum input voltage.
Certification status varies by model and market. Contact VaySunic for the certificates of a specific model.



SMART AC EV CHARGER · WALLBOX AND PORTABLE

ChargeFlow Series

VC-W7K / W11K / W22K · KS / KC · VC-P3.5K / P7K

Charge from Your Roof, Not the Peak Tariff

WALLBOX
7 / 11 / 22 kW
Single- and three-phase

ADJUSTABLE
6–32 A
In 1 A steps[1]

4 modes
Manual to AI[1, 3]

IP65 / IK08
Outdoor-rated enclosure

TYPE 2
5 m
Tethered cable or socket

CLOUD
OCPP
Via VIP Cloud

1 Smart charging needs the EnergyPilot local controller (VDG-EM-1 or VDG-EM-3) at the grid connection; one EnergyPilot controls one charger. Without it, ChargeFlow charges at a set current like a standard charger.
2 Battery top-up also needs PowerCube or SolarHub storage.
3 The charging modes offered are those shown in the VIP Cloud app and may be refined with software updates.
Images are for reference only; the final product design may differ. Available functions depend on the market.

Smart Charging with EnergyPilot

More on pages 18–19

Solar Surplus Charging
Charges from excess solar, not the grid[1]

Dynamic Load Balancing
Keeps the home under the main-fuse limit[1]

Battery Top-up
PowerCube or SolarHub adds power on a small supply[2]

Tariff-aware AI Scheduling
Charges in the cheapest hours via VIP Cloud

Bluetooth Remote
Start, stop and set current with no internet

Solar Retrofit Ready
Works with an existing solar system[1]



VC-W…KC
Tethered Type 2 cable, 5 m



VC-W…KS
Type 2 socket with shutter, for the driver's own cable



VC-P3.5K / P7K
Portable, 5 m cable; household or CEE plug[5]

Key Specifications

Model	VC-W7KS / KC	VC-W11KS / KC	VC-W22KS / KC
Nominal charging power	7 kW	11 kW	22 kW
Grid type	Single-phase, L / N / PE	Three-phase, 3L / N / PE	Three-phase, 3L / N / PE
Rated input voltage	220–240 V	380–415 V	380–415 V
Max. charging current	32 A	16 A	32 A
Current adjustment	From 6 A to the maximum, in 1 A steps		
Protection	Residual current, earth fault, surge, over / under voltage, overcurrent, over-temperature, PEN fault, tamper detection[4]		
Operating temperature	−30 to 50 °C		
Communication	Wi-Fi, Bluetooth · OCPP via VIP Cloud		
Markings / warranty	CE · CB · UKCA · RCM / 2 years (wallbox)		

4 Contact VaySunic for the PEN fault detection standards met. Certification status varies by market.
5 Portable VC-P3.5K / P7K: 3.5 kW with a household plug or 7 kW with a CEE 32 A plug. App control, smart charging and load balancing need the optional communication module (Wi-Fi / Bluetooth). Markings: CE · TÜV.

CHARGEFLOW · SMART CHARGING

Charging That Knows Your Home

With EnergyPilot at the grid connection, ChargeFlow sees what the house uses and what the roof makes, and sets its charging current to match.

Four Charging Modes

Chosen in the VIP Cloud app[1]

1 Manual

Fixed or maximum power set by you. The fastest charge.

GRID · SOLAR

BEST FOR NEEDS: When the car has to be full quickly ChargeFlow on its own

2 Smart

Solar first. When solar is not enough, grid power and the battery make up the difference.

SOLAR · GRID · BATTERY

BEST FOR NEEDS: Everyday charging on your own solar EnergyPilot; storage optional[2]

3 Schedule

Time slots with Manual or Smart for each, for example Smart by day and Manual in off-peak night hours.

SOLAR · GRID · BATTERY

BEST FOR NEEDS: Fixed routines and time-of-use tariffs EnergyPilot

4 AI

Plans charging with dynamic tariffs, the weather forecast and your driving habits.

SOLAR · GRID · BATTERY

BEST FOR NEEDS: Dynamic tariffs: the cheapest hours EnergyPilot and VIP Cloud (online)

Battery Top-up in Smart Mode

Example[2]

Late afternoon: solar is down to 2 kW and the grid supply allows 3 kW. The battery adds 2 kW, so the car still charges at 7 kW.

Solar 2 kW	Grid 3 kW	Battery 2 kW

Charging power **7 kW**

SEE IT LIVE

Watch load balancing on our website

Switch between full power, a fixed low current and EnergyPilot, and try the four charging modes. **vaysunic.com/products/chargeflow**

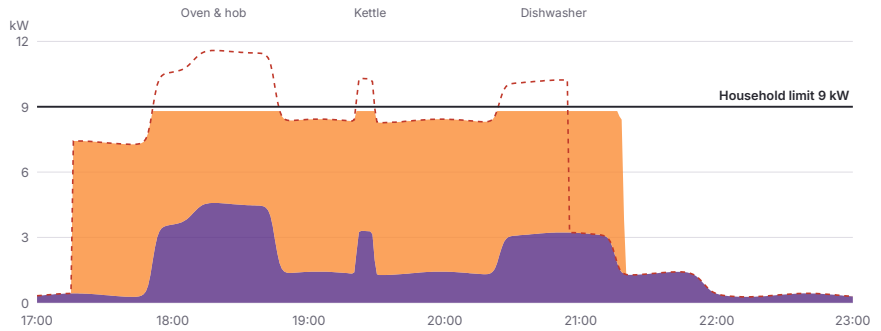
1 Modes are those shown in the VIP Cloud app and may be refined with software updates. Available functions depend on the market.

2 Battery top-up needs PowerCube or SolarHub storage. Single-phase example; the achievable power depends on the battery configuration, its state of charge and the charger model.

A 7 kW Charger on a 9 kW Supply

Dynamic load balancing[3]

When the oven, hob or heat pump starts, ChargeFlow lowers its current so the home stays under the main-fuse limit, and raises it again as soon as there is room. No supply upgrade is needed for the charger.



NO BALANCING, FULL POWER	NO BALANCING, FIXED 9 A	WITH ENERGYPILOT
2 trips	**11.9** kWh	**25** kWh
Home dark about 30 min, only 5.6 kWh charged	By 23:00, car not full	Full at about 21:20, 2.5–7 kW automatic

Bluetooth Remote, Even Offline



In local mode the VIP Cloud app connects to the wallbox over Bluetooth. Start and stop charging, change the current and check the session right next to the car, without Wi-Fi or mobile data. Online, VIP Cloud adds remote access, history and OCPP connection to charging-management platforms.

- Set-up over Bluetooth and Wi-Fi in the VIP Cloud app
- Starts on plug-in, from the app or over Bluetooth; RFID card on request
- LED light bar shows the charging status

3 Illustration, not a measurement: single-phase 7 kW ChargeFlow, an example household limit of 9 kW and a 25 kWh charge from 17:15. Without load balancing at full power the oven trips the main breaker at 17:58 and again at 18:18; the fixed case is set to 9 A (about 2.1 kW). Load balancing needs the EnergyPilot local controller at the grid connection.



VDG-EM-1
Single-phase, 1 CT



VDG-EM-3
Three-phase or 3 × single-phase, 3 CTs

LOCAL ENERGY CONTROLLER WITH BUILT-IN METERING

EnergyPilot Series

VDG-EM-1 / VDG-EM-3

Measure Locally, Control Locally

1P / 3P
For single- or three-phase grids

±1%
Metering accuracy, V / I / P / E[1]

UP TO
100 A
Clip-on current transformer[2]

Smart Functions

Software-defined, set in the VIP Cloud app

Zero Export
Or a set feed-in limit[4]

Storage Dispatch
Self-use, time-of-use and dynamic tariffs

EV Solar Charging
Solar surplus and load balancing for ChargeFlow

Local EMS
Decides on site, also without internet[3]

Bluetooth When Offline
Operate it in the app next to the device

Works with Any Inverter
Third-party PV monitored via CT[5]

1 EnergyPilot measures for control and monitoring. It is not a billing meter.
2 For currents above 100 A, contact VaySunic: a solution with a custom CT is available.
3 Metering and control run on the device. The internet is needed only for the VIP Cloud app and remote settings.
4 Feed-in is regulated continuously. Short fluctuations around the set value can occur when the load or PV output changes.
5 Inverters of other brands can be monitored at power level with the spare CTs of VDG-EM-3. EnergyPilot does not control third-party inverters.



CLOUD PLATFORM

VIP Cloud

One App for the Whole System

Homeowners see and control SolarCore, SolarHub, PowerCube, ChargeFlow and EnergyPilot in one app. Installers and distributors commission and manage their sites with the VIP Professional app.

Live Energy Flow
Solar, battery, home and grid at a glance.

AI Scheduling
Learns your usage and optimises charging automatically.

Solar Forecast
Plans charging around the expected solar yield.

Dynamic Tariffs and Time-of-Use
Charges when energy is cheap, supplies at peak prices.

Backup Reserve
Adjustable SOC reserve for outages.

EV Charging and OCPP
Four charging modes, with OCPP to charging platforms.

ONE APP FOR


SolarCore

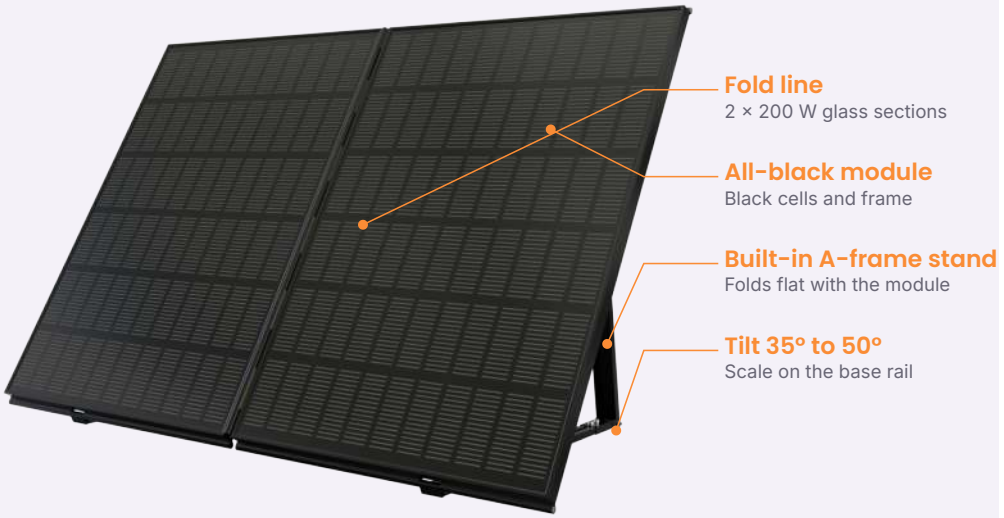

SolarHub


PowerCube


ChargeFlow


EnergyPilot

App screens for illustration. Available functions depend on the product, market and software version.



PLUG-IN BALCONY SOLAR · GLASS MODULE EDITION

VaySunic SolarKit

VSK-800W / 2 × 400 W Foldable Glass Modules

Unfold. Plug In. Generate.

800 W
Solar power (2 × 400 W)

21.8%
Module efficiency

−43%
Shipping footprint, folded [1]

35–50°
Adjustable tilt

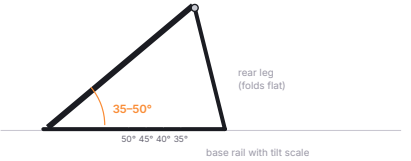
Plug-in
Microinverter 800 W, 2 MPPTs [2]

TÜV · CE · UKCA
Certified PV module

1 Crate footprint 1210 × 870 mm (1.05 m²) against the unfolded module area 1640 × 1134 mm (1.86 m²).
2 Installation must follow local rules for plug-in solar devices, including output limits and registration where required. Check that the railing can carry the modules and wind load.
Images are for reference only. VSK-800W includes two modules.

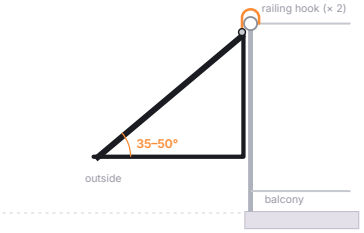
Two Ways to Install

One stand for both, set up in minutes



Free-Standing

Balcony floor, terrace, garden or flat roof. Set the tilt on the scale of the base rail.



On the Balcony Railing

The same stand hangs outside the railing on two supplied hooks. No drilling.

Why SolarKit

Foldable Glass Module
Two 200 W glass halves hinge into one rigid 400 W panel, all-black.

Built-in A-Frame Stand
Folds flat with the module and opens to 35–50°.

Plug and Play
Where local regulations allow, plug into a socket and generate within minutes. [2]

Lower Logistics Cost
Two crates of 1210 × 870 × 190 mm per kit.

Zero Export Ready
Add EnergyPilot VDG-EM-1 to limit grid export.

Add Storage Later
Pair with PowerCube to use solar in the evening.

Key Specifications

Solar power, nominal	800 W (2 × 400 W)
Module Pmax / Vmp / Voc (STC)	400 W / 44.64 V / 51.84 V
Module dimensions, unfolded	1640 × 1134 × 35 mm, all-black, aluminium frame
Microinverter	800 W, 2 MPPTs, 14–60 V, 2 × 18 A
Output voltage / frequency	220, 230, 240 V / 50 / 60 Hz, single-phase
Yield estimate [3]	748 / 993 / 1,241 kWh per year
Packing	2 crates, 1210 × 870 × 190 mm each
Communication	Wi-Fi · VIP Cloud
Standards (selected)	Module: TÜV SAAR · CE · UKCA · Microinverter: VDE-AR-N 4105 · CEI 0-21 · G98

3 At 1,100 / 1,460 / 1,825 kWh/m² global horizontal irradiance per year: DC power × annual peak sun hours × 85% system derating. Actual yield depends on location, orientation and shading.
1,000 VA microinverter and 120 / 240 V UL versions available on request. Certification status varies by market; contact VaySunic for current certificates.

RESEARCH AND DEVELOPMENT

Full Stack, Developed In-House

Our own engineering teams develop every layer of the system, from power electronics and battery management to software, local EMS and cloud, and the systems that produce and test it.

01 Cloud Platform and Apps	**VIP Cloud** Homeowner app	**VIP Professional** Installers, distributors	**AI Scheduling** Forecast, tariffs	**OEM Platform** Branded for partners
02 Communication and Local EMS	**EnergyPilot** Local EMS, edge	**Wi-Fi · Bluetooth** Device link	**CAN** Battery link	**OCPP** Charging platforms
03 Software and Algorithms	**Firmware** All product lines	**MPPT** Maximum harvest	**Grid Support** Local grid codes	**Charge Control** Battery and EV
04 Power Electronics	 **Microinverters** SolarCore	 **Hybrid Microinverters** SolarHub · PowerCube	 **EV Chargers** ChargeFlow	
05 Battery Management	**BMS** Monitor and protect	**Self-Heating** Cold-weather control	**Fire Suppression** Aerosol, every pack	**Pack Mixing** New and existing
06 Production and Test Systems	**FCT** Functional test	**ATE** End-of-line test	**100% Aging** Online, real-time	**Traceability** Parts to shipment

40+
Patents

20+ years
Core team expertise, Germany and China

MANUFACTURING AND QUALITY

Built in Our Own 6,000 m² Base

Our manufacturing base in China runs production and test systems we developed ourselves, so production is tested and traceable end to end.



VaySunic manufacturing base, China

FCT
Functional circuit testing

ATE
Automated end-of-line testing

100% Aging
Online aging system, monitored in real time

Traceability
From components to shipment

OEM / ODM PARTNER

15+ brands served

3 listed companies among them

Turnkey OEM / ODM: hardware, firmware, software, platform and app, tailored to your brand.

INSTALLED WORLDWIDE

Engineered for Roofs, Balconies and Gardens













Installations completed with VaySunic partners on pitched, flat and metal roofs and on balcony facades.



WORK WITH VAYSUNIC

Grow with a Partner That Builds the Whole System

Distributors and Installers

One range to stock and sell, from 800 W balcony kits to whole-home storage and EV charging, with training, technical support and marketing material from our local teams.

OEM and ODM

A turnkey service for more than 15 brands, including 3 listed companies: hardware, firmware, software, platform and app, all tailored to each partner's brand.

SKD Local Manufacturing

Local assembly from SKD kits, backed by our self-developed production and test systems. Fast ramp-up in your market and lower tariff risk.

Contact Us

info@vaysunic.com · www.vaysunic.com