



ChargeFlow Series

VC-W7K / W11K / W22K · KS / KC

Portable: VC-P3.5K / P7K, charges from a socket⁴

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, Smart, Schedule, AI ^{1,3}	 WALLBOX IP65 / IK08 Outdoor-rated enclosure	 TYPE 2 5 m Tethered cable or socket	 CLOUD OCP Via VIP Cloud
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Smart Charging with EnergyPilot

 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; Wi-Fi for remote monitoring	 Solar Retrofit Ready Works with an existing solar system ¹



VC-W...KS

Type 2 socket with shutter

VC-W...KC

Tethered, 5 m cable

VC-P3.5K / P7K

Portable, 5 m cable

¹ Smart charging needs the EnergyPilot local controller (VDG-EM-1 or VDG-EM-3) at the grid connection. 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.

⁴ Portable models: app control and smart charging need the optional communication module.

Images are for reference only; the final product design may differ. Available functions depend on the market.

Typical Applications



01 · SOLAR CHARGING

Charge from Your Own Roof

TYPICAL CONFIGURATION

ChargeFlow wallbox + EnergyPilot + SolarCore

- Starts when the solar surplus covers the minimum charging current¹
- Charging power follows the surplus through the day
- In Smart mode, solar comes first; the grid only makes up what it can't cover



02 · SOLAR AND STORAGE

Faster Charging on a Small Supply

TYPICAL CONFIGURATION

ChargeFlow + EnergyPilot + PowerCube

- The battery adds power when the grid connection is limited
- Example: a 3 kW supply can still charge at up to 7 kW²
- Works in Smart mode: solar first, then battery and grid make up the rest



03 · LOAD MANAGEMENT

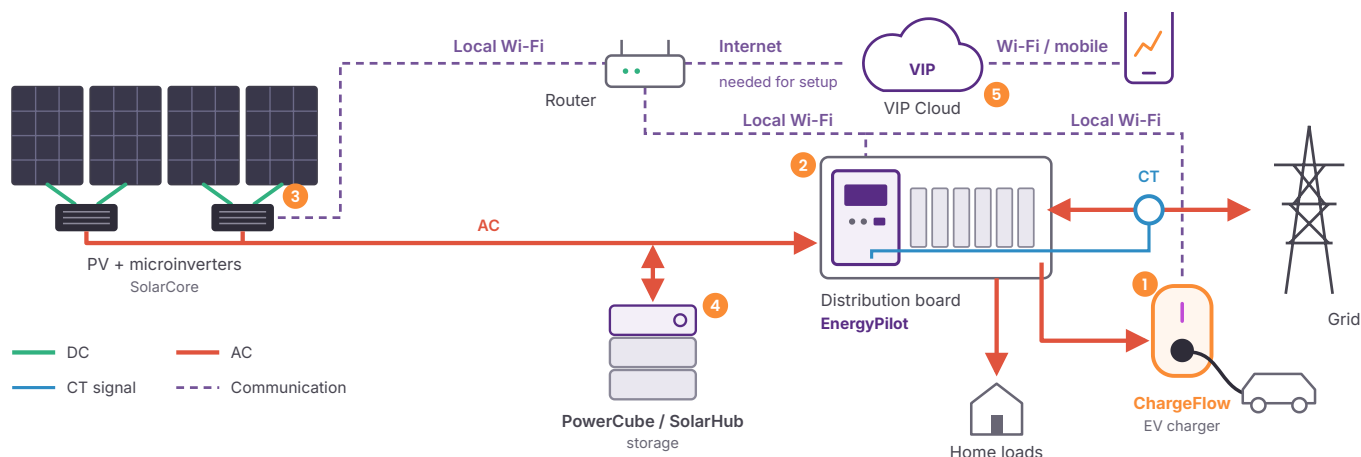
Full Power Without a Bigger Supply

TYPICAL CONFIGURATION

ChargeFlow wallbox + EnergyPilot

- Charges at full power while the home is quiet
- Backs off when large appliances start
- Avoids upgrading the grid connection for the car

One Ecosystem With EnergyPilot: set up once online, then coordinated over local Wi-Fi, also without internet



- CHARGING**
ChargeFlow
Smart wallbox, 7 to 22 kW

- LOCAL EMS**
EnergyPilot
Sees the whole house at the grid connection

- SOLAR**
SolarCore
Microinverters on the roof or carport

- STORAGE**
PowerCube
Or SolarHub, stores daytime surplus

- CLOUD**
VIP Cloud
App, tariffs and AI scheduling

¹ The minimum charging current is 6 A per phase, about 1.4 kW single-phase or 4.1 kW three-phase. Some older vehicles do not accept current adjustment; automatic control is not available for them.

² Single-phase example. The achievable power depends on the battery configuration, its state of charge and the charger model.

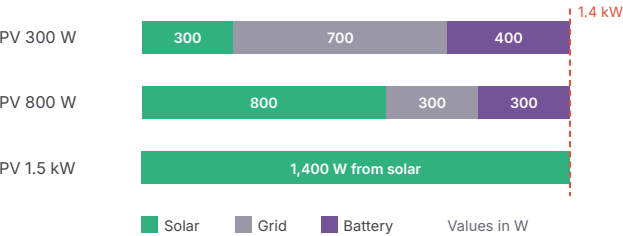
EnergyPilot measures solar, home load and grid power at the grid connection and sets the ChargeFlow charging current continuously. To avoid frequent switching, charging starts or stops only after conditions have been stable for 30 seconds. One EnergyPilot controls one charger.

Charging Modes Selected in the VIP Cloud app¹

1 Manual GRID PV Fixed or maximum power set by the user. Fastest charge.	2 Smart PV GRID BATTERY Solar first. When solar falls short, the grid and battery make up the rest.¹	3 Schedule GRID PV BATTERY Time windows, each set to Manual or Smart. For example, Smart by day and Manual in the night off-peak window.	4 AI PV GRID BATTERY Plans charging around dynamic tariffs, the weather forecast and your driving habits, via VIP Cloud.
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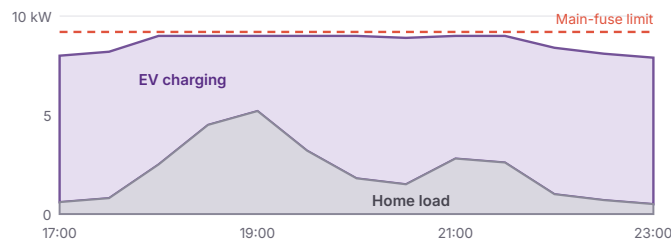
How the Current Is Controlled

Smart Mode 1.4 kW charging, three solar levels



Charging never stops for a passing cloud. The top-up shrinks as solar rises, and above the demand the car charges on solar alone.

Dynamic Load Balancing Illustration, evening at home



With EnergyPilot, when the oven or heat pump starts, the charging current drops so the total stays under the limit, then rises again. This lets a 7 kW charger run on a 7 kW household supply, with no supply upgrade for the charger.

Installation

Mounting	Wall mounting, indoors or outdoors	Start and access	Plug and charge, app or Bluetooth; RFID card on request
Supply	7 kW: single-phase 32 A · 11 kW: three-phase 16 A · 22 kW: three-phase 32 A	Bluetooth remote	No internet needed: the app connects directly to start or stop, adjust the current and view the session
Connector	KS: Type 2 socket with shutter, for the driver's own cable · KC: tethered Type 2, 5 m	Setup	Paired in the VIP Cloud Installer app over Bluetooth and Wi-Fi
Installation	By a qualified electrician, on a dedicated circuit with the protective devices required by local wiring rules	Back end	OCPP connection to charging management platforms via VIP Cloud
		Smart functions	Need EnergyPilot at the grid connection; one EnergyPilot per charger

Safety

IP65 and IK08 Dust-tight and protected against water jets, with an impact-resistant housing.	Residual Current Leakage current detection cuts the supply to the vehicle.	Fault Detection Ground fault protection and tamper detection on the wallbox.²	Surge and Voltage Surge, over and under voltage, overcurrent and over-temperature protection.
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¹ The modes offered are those shown in the VIP Cloud app and may be refined with software updates. Battery top-up in Smart mode also needs PowerCube or SolarHub storage.
² PEN fault detection is also built in. Contact VaySunic for the standards met.
Charts are illustrations; the Smart mode values come from a single-phase example.

	WALLBOX			PORTABLE	
Model	VC-W7KS VC-W7KC	VC-W11KS VC-W11KC	VC-W22KS VC-W22KC	VC-P3.5K	VC-P7K
AC Input and Output					
Nominal Charging Power	7 kW	11 kW	22 kW	3.5 kW	7 kW
Grid Type	1P, L / N / PE	3P, 3L / N / PE	3P, 3L / N / PE	1P, L / N / PE	
Rated Input Voltage	220–240 V	380–415 V	380–415 V	220–240 V	
Max. Charging Current	32 A	16 A	32 A	16 A	32 A
Current Adjustment	From 6 A to the maximum, in 1 A steps			–	
Frequency	50 / 60 Hz				
Supply Connection	Fixed wiring			Household plug	CEE 32 A plug
Vehicle Connector	KS: Type 2 socket with shutter · KC: tethered Type 2, 5 m			Type 2, 5 m cable	
Smart Charging ¹					
Charging Modes ²	Manual, Smart, Schedule, AI			With optional module ⁵	
Dynamic Load Balancing	Supported, with EnergyPilot			With optional module ⁵	
Authentication	App, Bluetooth; RFID card on request ³			RFID card on request ³	
OCPP	Via VIP Cloud			–	
Protection					
Over / Under Voltage, Overcurrent				Supported	
Over-temperature, Surge				Supported	
Residual Current, Earth Fault				Supported	
PEN Fault, Tamper Detection	Supported ⁴			–	
General Data					
Control Box (W × H × D) / Weight	–			95 × 224 × 50 mm / 1.59 kg	
Ingress / Impact Protection	IP65 / IK08			IP65	
Cooling	Natural convection, no fan				
Operating / Storage Temperature	–30 to 50 °C / –40 to 70 °C			–30 to 50 °C / –40 to 80 °C	
Relative Humidity / Altitude	0–95%, non-condensing / up to 2,000 m				
Communication	Wi-Fi, Bluetooth (local app control without internet)			Wi-Fi, Bluetooth with optional module ⁵	
Display and Monitoring	LED light bar, VIP Cloud app			OLED display; app with optional module ⁵	
Warranty	2 years				

Standards Compliance Certification status varies by market. Contact VaySunic for current certificates.

EV Charging	EN IEC 61851-1:2019 · EN IEC 61851-21-2:2021 · EN IEC 62196-2
Portable	EN IEC 62752 (in-cable control and protection device) · EN 60884-1
Radio	RED 2014/53/EU · EN 300 328 · EN 301 489-1 / -17
Cybersecurity	EN 18031-1 · PSTI (UK)
Markings	Wallbox: CE · CB · UKCA · RCM Portable: CE · TÜV

Ordering Information

VC-W...KS	ChargeFlow wallbox with Type 2 socket and shutter, 7 / 11 / 22 kW
VC-W...KC	ChargeFlow wallbox with tethered Type 2 cable (5 m), 7 / 11 / 22 kW
VC-P3.5K / P7K	ChargeFlow portable charger with Type 2 cable (5 m): household plug (3.5 kW) or CEE 32 A plug (7 kW)
For smart charging	EnergyPilot VDG-EM-1 for single-phase homes, VDG-EM-3 for three-phase homes
For battery top-up	PowerCube or SolarHub storage

1 Smart charging needs the EnergyPilot local controller; one EnergyPilot controls one charger. Battery top-up in Smart mode also needs PowerCube or SolarHub storage.
2 The modes offered are those shown in the VIP Cloud app and may be refined with software updates.
3 RFID authentication is not fitted as standard and is available on request.
4 Contact VaySunic for the PEN fault detection standards met.
5 Portable models: app control, smart charging and load balancing need the optional communication module (Wi-Fi / Bluetooth).