

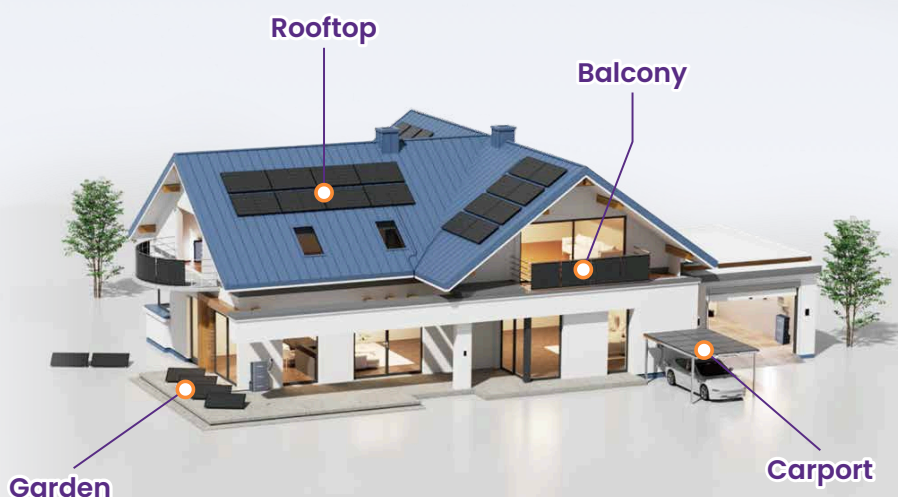
VM-P4 4 MPPTs · 2,000–2,250 W



VM-P2 2 MPPTs · 600–1,000 W



VM-P1 1 MPPT · 350–500 W



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 model¹	 99.8 % MPPT efficiency	 App Monitoring via VIP Cloud
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Safety and Durability

 IP67 (NEMA 6) Outdoor-rated metal housing	 –40 to 65 °C² Operating ambient range	 Fanless Design Natural convection cooling
 Low-Voltage DC Max. 63 V per module input	 Galvanic Isolation Isolated DC and AC sides	 Global Compliance Europe, APAC and LATAM standards

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.

² Output may derate at high temperatures.

Values were measured in the VaySunic laboratory under specific test conditions and may vary in actual use. Images are for reference only.

Typical Applications



01 · BALCONY
Balcony and Plug-in Solar²

TYPICAL CONFIGURATION¹
VM800WE-P2 + 2 modules
800 W

800 w	2	3.22 kg
AC output	Modules	Weight



02 · GARDEN
Garden, Fence and Carport

TYPICAL CONFIGURATION¹
VM-P1 + 1 module
350–500 W

500 w	1	1.75 kg
AC output	Module	Weight

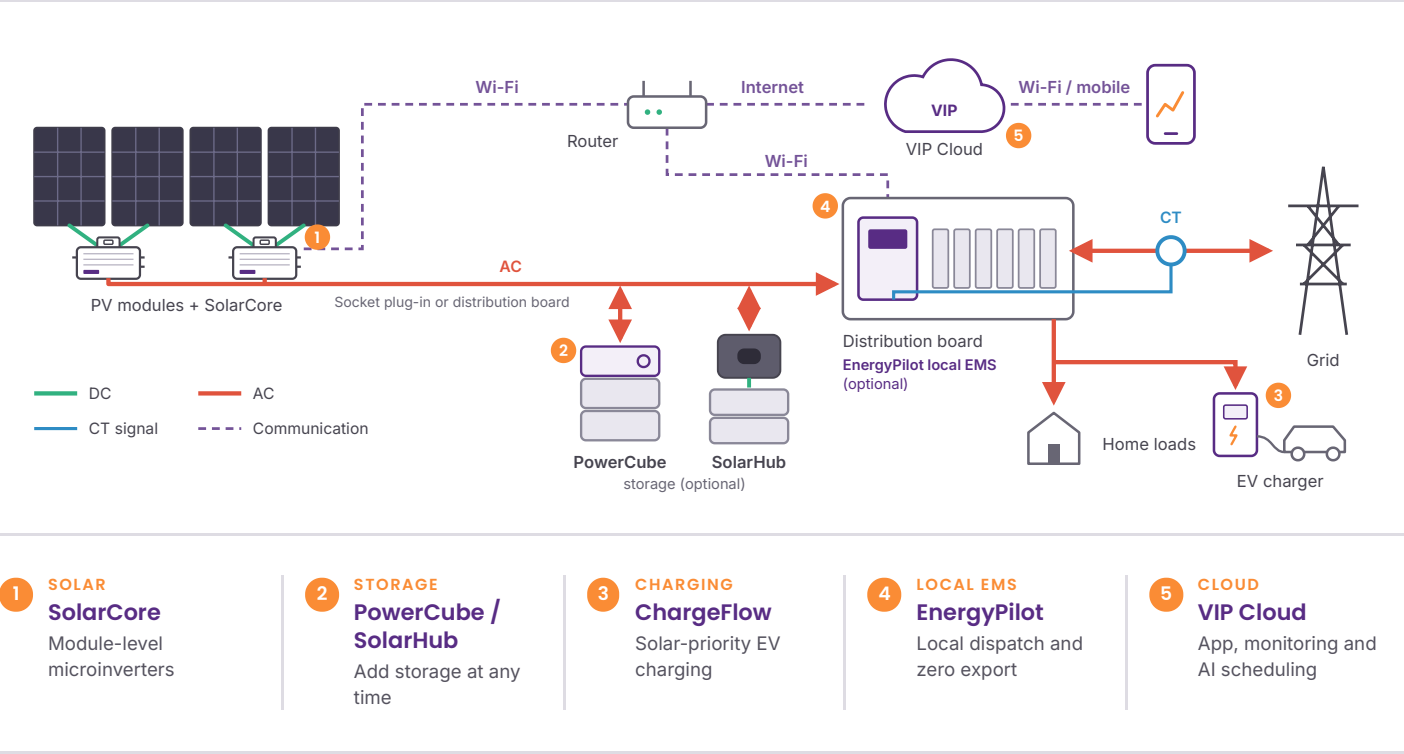


03 · ROOFTOP
Rooftop Arrays

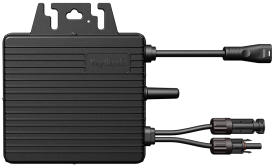
TYPICAL CONFIGURATION¹
VM2250W-P4 + 4 modules
2,250 W

2,250 w	4	5.1 kg
AC output	Modules	Weight

One Ecosystem Add storage, charging and EMS block by block



Each module has its own MPPT, so shade on one module does not affect the others. Choose the platform by the number of modules.



1 MODULE PER UNIT

VM-P1

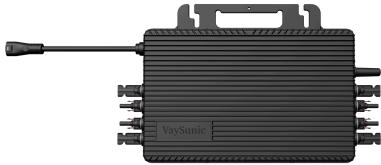
For single modules on home rooftops, fences, sheds and small balconies.



2 MODULES PER UNIT

VM-P2

For balcony and plug-in systems, including the 800 W model.



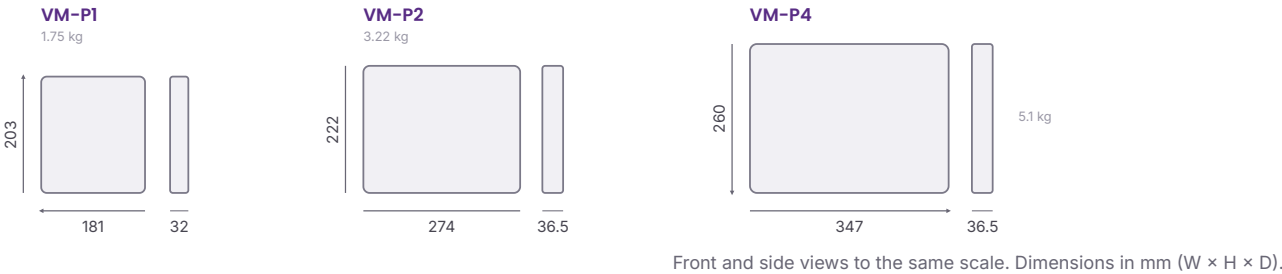
4 MODULES PER UNIT

VM-P4

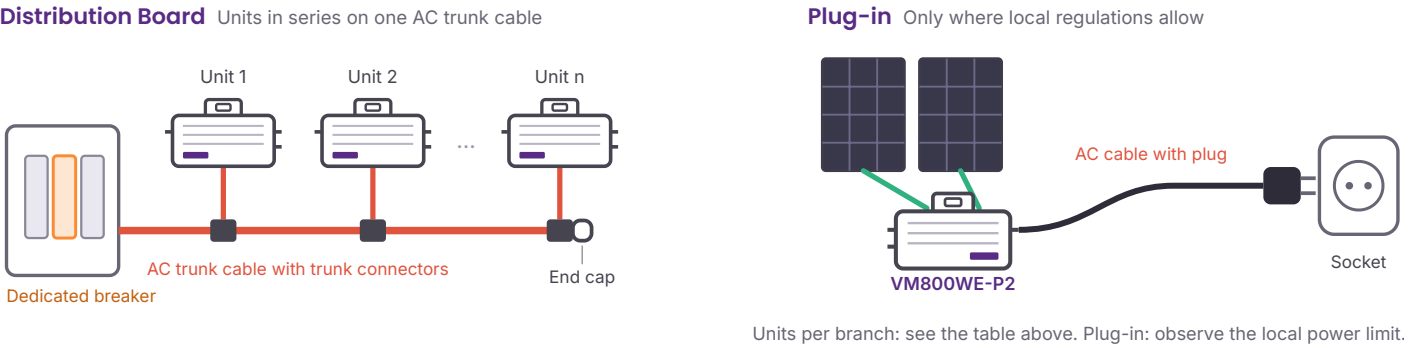
For rooftop arrays, with fewer units and connections per kW.

Model	Rated Output (W)	Rated Output Current (A)	Compatible Module Power (Wp) ¹	Peak Efficiency	MPPTs	Max. Units per Branch ²		
						2.5 mm²	4 mm²	6 mm²
VM350WE-P1	350	1.69	280–470+	96.8%	1	15	21	–
VM400WE-P1	400	1.92	320–540+	96.8%	1	13	18	–
VM450WE-P1	450	2.18	360–600+	96.6%	1	12	16	–
VM500WE-P1	500	2.41	400–670+	96.6%	1	11	14	–
VM600WE-P2	600	2.61	240–410+	96.8%	2	7	12	–
VM700WE-P2	700	3.04	270–460+	96.8%	2	6	10	–
VM800WE-P2	800	3.48	330–550+	96.8%	2	5	9	–
VM900WE-P2	900	3.91	350–610+	96.6%	2	5	8	–
VM1000WE-P2	1,000	4.35	390–680+	96.6%	2	4	7	–
VM2000W-P4	2,000	8.8	400–670+	96.6%	4	–	3	4
VM2100W-P4	2,100	9.2	400–670+	96.6%	4	–	3	4
VM2250W-P4	2,250	9.9	400–700+	96.5%	4	–	3	4

Dimensions



AC Connection



1 Recommended module power per MPPT input. Check module Voc at the lowest site temperature against the maximum input voltage.

2 By AC cable cross-section. Always follow local requirements for the number of microinverters per branch.

Platform	VM-P1 VM350/400/450/500WE-P1	VM-P2 VM600/700/800/900/1000WE-P2	VM-P4 VM2000/2100/2250W-P4
PV Input (DC)			
MPPTs / Inputs per MPPT	1 / 1	2 / 1	4 / 1
Operating / MPPT Voltage Range (V)	14-63 / 16-60	14-63 / 16-60	14-61 / 20-60
Start-up Voltage (V)		18	
Max. Input Voltage (V)	63	63	61
Max. Input Current per MPPT (A)		18	
Max. Short-Circuit Current per MPPT (A)		25	
DC Backfeed Current / Overvoltage Category		0 A / II	
AC Output			
Rated Output Power (VA) ¹	350 / 400 / 450 / 500	600 / 700 / 800 / 900 / 1,000	2,000 / 2,100 / 2,250
Nominal Voltage (Range) ²	230 / 240 V (180-275 V)	230 / 240 V (180-275 V)	220-240 V (180-275 V)
Nominal Frequency ²		50 / 60 Hz	
Max. Output Overcurrent / Fault Current (A)	3.6 / 3.6	6.5 / 6.5	13.9 / 13.9
Inrush Current		0 A	
Power Factor		> 0.99 (default), adjustable	
Total Harmonic Distortion		< 3%	
Overvoltage Category (AC)		III	
Efficiency			
Peak Efficiency ³	96.6-96.8%	96.6-96.8%	96.5-96.6%
Nominal MPPT Efficiency		99.8%	
Night-time Power Consumption		< 50 mW	
General Data			
Dimensions (W × H × D)	181 × 203 × 32 mm	274 × 222 × 36.5 mm	347 × 260 × 36.5 mm
Weight	1.75 kg	3.22 kg	5.1 kg
Housing / Ingress Protection		Metal / IP67 (NEMA 6), outdoor	
Operating Ambient Temperature		-40 to 65 °C (derating at high temperatures)	
Relative Humidity / Max. Altitude		0-100%, non-condensing / 2,000 m	
Pollution Degree / Cooling		III / Natural convection, fanless	
Isolation		Galvanically isolated	
Communication / Monitoring		Wi-Fi (2.4 GHz) / VIP Cloud	
Zero Export Control		Via EnergyPilot local EMS controller (optional)	
Units per Container (20' GP / 40' HQ)	4,560 / 11,520	2,800 / 5,880	2,208 / 4,608

Standards Compliance Certification status varies by model and market. Contact VaySunic for the certificates of a specific model.

Grid	EN 50549-1:2019 · EN 50549-10:2022 · VDE-AR-N 4105 (DE) · CEI 0-21 (IT) · C10/11 (BE) · G98 · UKCA (UK) · ABNT NBR 16149 / 16150 (BR) · IEC 61727 · IEC 62116 · PEA / MEA (TH)
Safety	IEC/EN 62109-1 · IEC/EN 62109-2 · EN 50665:2017 · EN IEC 62311:2020
Radio and EMC	RED 2014/53/EU · EN 300 328 · EN 301 489-1 / -17 · IEC/EN 61000-6-1 / -2 / -3 / -4

1 Rated output is stated in VA; at the default power factor (> 0.99) it equals the output in W. Output power may vary with the grid voltage. Per-model values for output current, module power, efficiency and units per branch are listed on page 3.
2 Nominal voltage, frequency and ranges are set to the local grid code. Grid feed-in power may be limited by local regulations.
3 Range across the models of each platform.