SolarCore VM-P1

One Module, One Microinverter

VM350WE-P1 / VM400WE-P1 / VM450WE-P1 / VM500WE-P1

FROM
350–500 W
Rated output, 4 models

1
MPPT, one module per unit

670+ Wp
Compatible module power

99.8 %
MPPT efficiency

App
Monitoring via VIP Cloud

Safety and Durability

IP67 (NEMA 6)
Outdoor-rated metal housing

-40 to 65 °C[1]
Operating ambient range

Fanless Design
Natural convection cooling

Low-Voltage DC
Max. 63 V per module input

Galvanic Isolation
Isolated DC and AC sides

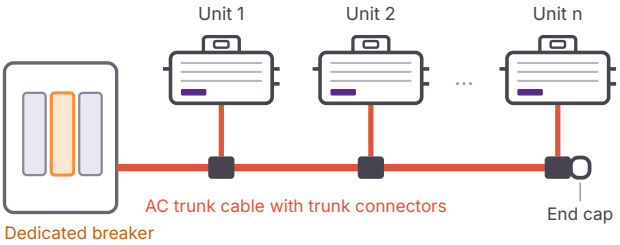
EU Standards
Grid, safety and EMC

AC Connection

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

Distribution Board

Units in series on one AC trunk cable



Monitoring and Control

VIP Cloud App
Live output and yield history over Wi-Fi

Zero Export
Feed-in limited with EnergyPilot

Storage Ready
Add PowerCube or SolarHub later

1 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.

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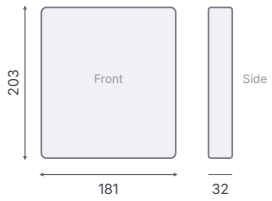
Technical Specifications SolarCore VM-P1

Model	VM350WE-P1	VM400WE-P1	VM450WE-P1	VM500WE-P1
PV Input (DC)				
Compatible Module Power (Wp) [1]	280–470+	320–540+	360–600+	400–670+
MPPTs / Inputs per MPPT	1 / 1			
Operating / MPPT Voltage Range (V)	14–63 / 16–60			
Start-up / Max. Input Voltage (V)	18 / 63			
Max. Input / Short-Circuit Current (A)	18 / 25 per MPPT			
DC Backfeed / Overvoltage Category	0 A / II			
AC Output				
Rated Output Power (VA) [2]	350	400	450	500
Rated Output Current (A)	1.69	1.92	2.18	2.41
Nominal Voltage (Range) / Frequency [3]	230 / 240 V (180–275 V) / 50 / 60 Hz			
Max. Output Overcurrent / Fault Current (A)	3.6 / 3.6			
Inrush Current / Overvoltage Category	0 A / III			
Power Factor / Total Harmonic Distortion	> 0.99 (default), adjustable / < 3%			
Max. Units per Branch (2.5 / 4 mm²) [4]	15 / 21	13 / 18	12 / 16	11 / 14
Protection				
Over / Under Voltage, Over / Under Frequency	Supported			
Overcurrent, Short Circuit, Over-temperature	Supported			
Surge Protection, Anti-islanding	Supported			
Rapid Shutdown (RSD)	Compliant			
Efficiency				
Peak Efficiency	96.8%	96.8%	96.6%	96.6%
MPPT Efficiency / Night Consumption	99.8% / < 50 mW			
General Data				
Dimensions (W × H × D) / Weight	181 × 203 × 32 mm / 1.75 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			

Dimensions



mm, housing

Standards Compliance

Grid	EN 50549-1:2019 · EN 50549-10:2022 · VDE-AR-N 4105 (DE)
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 · IEC/EN 62920

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

1 Recommended module power per MPPT input. Check module Voc at the lowest site temperature against the maximum input voltage.
2 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.
3 Nominal voltage, frequency and ranges are set to the local grid code. Grid feed-in power may be limited by local regulations.
4 By AC cable cross-section. Always follow local requirements for the number of microinverters per branch.

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