



plentiSOLAR

Erneuerbare Energie

Serie V

VM600W/700W/800W/900W/1000W-P2



HÖHERER Wirkungsgrad

Bis zu 30 % mehr Energie
50 °C Volllastbetrieb



SICHERHEIT

RSD Konform
IP67



FLEXIBLE INSTALLATION

3 Haken für verschiedene
Befestigungsmöglichkeiten



STARKE KOMMUNIKATION

Verschlüsselte Sub-1G-Lösung
für Privathaushalte und
Unternehmen

Modell	VM600W-P2	VM700W-P2	VM800W-P2	VM900W-P2	VM1000W-P2
	VM600WE-P2	VM700WE-P2	VM800WE-P2	VM900WE-P2	VM1000WE-P2
Eingangsdaten (DC)					
Gewöhnlich Modulleistung (W)	240 bis 410+	270 bis 460+	330 bis 550+	350 bis 610+	390 bis 680+
MPPT Spannungsbereich (V) ¹	33-48				
Einschaltspannung (V)	20				
Maximale Eingangsspannung (V)	63	63	63	63	63
Maximaler Eingangsstrom (A)	2x13	2x14	2x15	2x16	2x17
Maximaler Eingangskurzschlussstrom (A)	2x25	2x25	2x25	2x25	2x25
DC-Anschluss Rückspeisestrom (A)	0				
Überspannungsklasse DC-Anschluss	II				
Anzahl der MPPTs	2				
Anzahl der Eingänge pro MPPT	1				
Ausgangsdaten (AC)					
Nennausgangsleistung (VA)	600	700	800	900	1000
Nennausgangsstrom (A)	2.61	3.04	3.48	3.91	4.35
Maximale Einheiten pro 10AWG-Abzweig ²	12	10	9	8	7
Maximale Einheiten pro 12AWG-Abzweig ²	7	6	5	5	4
Nennausgangsspannung/Bereich (V) ³	230/240				
Nennfrequenz/Bereich (Hz) ¹	50				
Maximaler Ausgangsüberstromschutz (A)	6.5				
Maximaler Ausgangsfehlerstrom (A)	6.5				
Einschaltstrom (A)	0				
Überspannungsklasse AC-Anschluss	III				
Leistungsfaktor (einstellbar)	>0,99(Standard)				
Harmonische Gesamtverzerrung	<3%				
Wirkungsgrad					
CEC-Spitzenwirkungsgrad	96.80%	96.80%	96.80%	96.60%	96.60%
Nomineller MPPT-Wirkungsgrad	99.80%				
Leistungsaufnahme bei Nacht (mW)	< 50				
Packung Konfiguration					
Container	40'HQ / 20'HQ				
Stücke/Palette	150 / 150				
Paletten pro Container	40 / 20				
Stück pro Container	6000 / 3000				
Allgemeine Daten					
Umgebungstemperaturbereich (°C)	-40 bis +65				
Abmessungen (B x H x T mm)	361 × 222 × 36,5 (inklusive 3 Haken)				
Gewicht (kg)	3.26				
Schutzart	Außenbereich IP67 (NEMA 6)				
Relative Luftfeuchtigkeit	0~100%, nicht kondensierend				
Max. Betriebshöhe (m)	2000				
Grad der Verschmutzung	III				
Kühlung	Natürliche Konvektion (keine Ventilatoren)				
Kommunikation	Wifi				
Überwachung	Vaysonic Cloud ⁴				
Art der Isolierung	Galvanisch isoliert				
Compliance	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1/2/3/4, EN50549-1: 2019, VDE-AR-N 4105: 2018, CEI0-21, TOR Erzeuger, R25: 2019, EN 300 220-1/-2, EN300328, EN301489-1/3/-17, EN62311, C10/11, PN-EN50549-1: 2019, NC-RfG, ORDINANCE 140_2022				

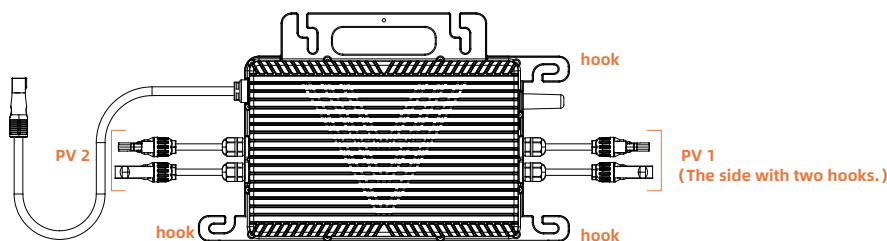
*1 Die Ausgangsleistung kann mit der Ausgangsspannung variieren.

*2 Die genaue Anzahl der Mikro-Wechselrichter pro Zweig ist den örtlichen Anforderungen zu entnehmen.

*3 Der Nennspannungs-/Frequenzbereich kann je nach den örtlichen Anforderungen variieren.

*4 Vaysunic Überwachungssystem.

VM-P2 series Quick Installation Guide Application to VM 600/700/800/900/1000 -P2 microinverters



Tools: Wire stripper, Riving pressure pliers, Torque screwdriver, Torque wrench

1. Plan and Build the AC Trunk Cable

AC Trunk Cable is used to connect the microinverter to the power distribution box.

• Plan the AC Trunk Cable

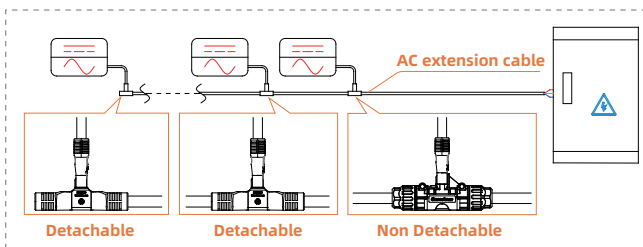
- Mark the position of each microinverter on the rail according to the PV module layout. Select the appropriate AC Trunk Cable according to the spacing between microinverters. The connectors of the AC Trunk Cable should be spaced based on the spacing between microinverters to ensure that they can properly matched.
- Determine how many microinverters you plan to install on each AC branch and prepare AC Trunk Connectors accordingly.
- Take out segments of AC Trunk Cable as you need to make AC branch.

• Build the AC Trunk Cable

According to the actual situation, choose two installation methods.

Non detachable: More convenient and reliable

- Connect AC cables of appropriate length to the distribution box.
- When the length is not enough, users can connect AC bus cables and AC extension cables to the junction box.



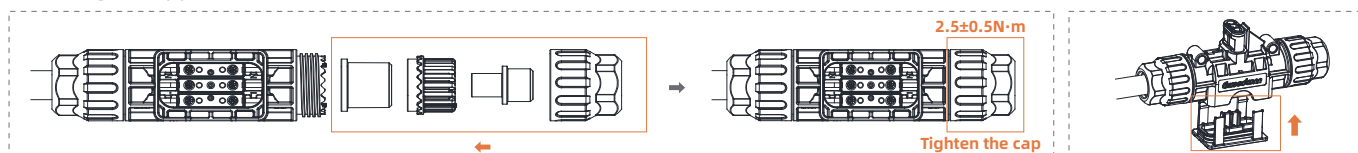
Detachable: More flexible

a. Install the AC Trunk End Cap at one side of AC Trunk Cable (the end of AC Trunk Cable).

- Disassemble the AC Trunk Connector and remove the cable.
Unlock the connector's upper cover with the unlock Tool.
- Loosen the three screws with the screwdriver. Untighten the cap and remove the cable.

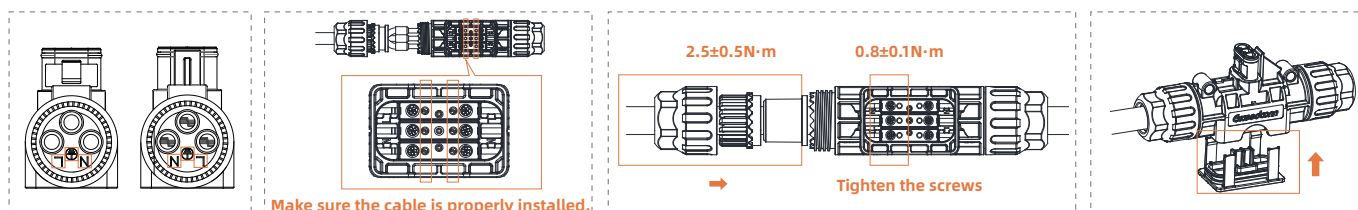
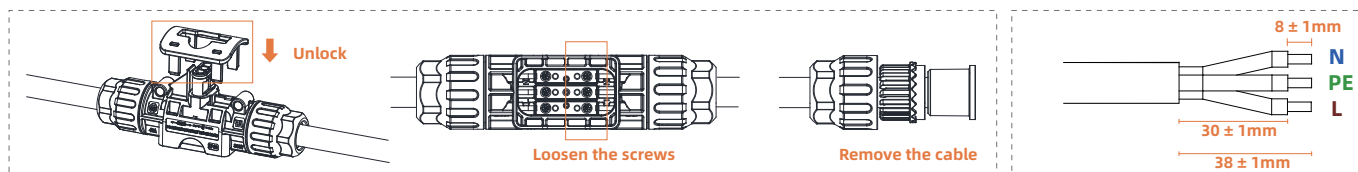


- Insert the AC Trunk End cap and screw the cap back to port, then tighten the cap.
- Plug the upper cover back to the Trunk connector.



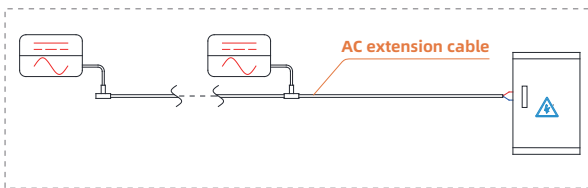
b. Install AC end cable on the other side of AC Trunk Cable (connected to the distribution box).

- Unlock the port upper cover, loosen the screws with the screwdriver and remove the extra cable.
(Skip this step if there is no cable at this side.)
- Prepare a segment of AC cable of suitable length to connect to the distribution box, with stripping requirements fulfilled.
- Insert the cable into the cap in a way that the L, N and PE are in corresponding slots. The line positions on both sides are symmetrical.
- Observe the hole to check whether the cable is properly installed.
- Tighten the screws, and then tighten the cap back to the port.
- Plug the upper cover back to the Trunk connector.



VM-P2 series Quick Installation Guide Application to VM 600/700/800/900/1000 -P2 microinverters

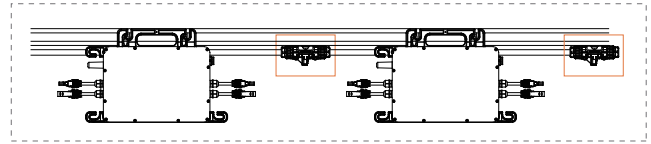
(7) Connect VaySunic Microinverters to Grid. When AC extension cable is needed, users could connect the AC bus cable and AC extension cable in a junction box.



- Note:
1. Tightening torque of the cap: 2.5 ± 0.5 N·m. **Please do not over torque.**
 2. Torque of locking screw: 0.8 ± 0.1 N·m. **Please do not over torque.**
 3. **Do not damage** the sealing ring in the AC Trunk Connector during disassembly and assembly.
 4. Wires used in VaySunic Microinverter—L, N, PE. **Please make sure the cable is properly installed.**

• Repeat the above steps to make all the AC Trunk Cables you need. Then lay out the cable on the rail as appropriate so that the microinverters can be connected to the Trunk connectors.

• Attach the AC Trunk Cable to the mounting rail and fix the cable with tie wraps.



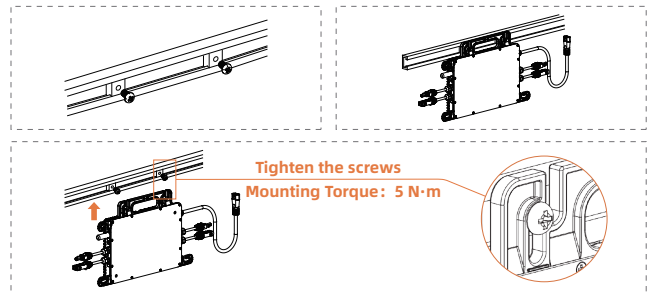
2. Plan and Install the Microinverter

Plan:

- a. The installation and DC connection of the microinverter must be set under the PV module to avoid direct sunlight, rain exposure, snow accumulation, ultraviolet radiation and other conditions.
- b. Leave a minimum of 2 cm of space around the microinverter enclosure to ensure ventilation and heat dissipation.
- c. Mounting the M8 screw, torque is 5 N·m. Do not over torque.

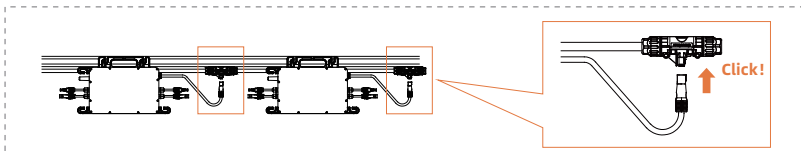
Installation:

- a. Fix the screws on the rail according to the PV module layout.
- b. Hang the microinverter on the screws, and tighten the screws. The label side of the microinverter should be facing the panel.

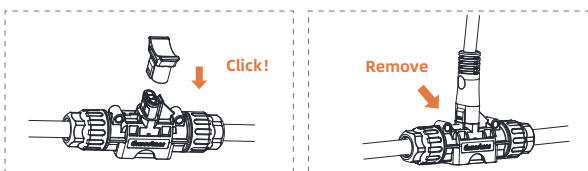


3. Complete the AC Connection

• Plug the AC Sub Connector of the microinverter into the AC Trunk Connector until you hear the click.



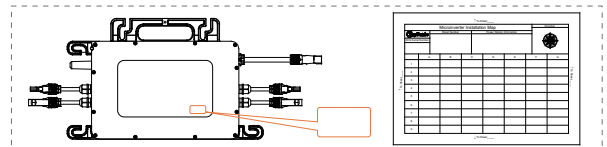
- Connect the AC end cable to the distribution box, and wire it to the local grid network.
- Please plug the AC Trunk Port Cap in any vacant AC Trunk Port to make it water-proof and dust-proof.



- Note:
1. Make sure that the AC Trunk Connectors are kept away from any drainage channels.
 2. In case you need to remove the microinverter AC cable from AC Trunk Connector, insert the AC Trunk Port Disconnect Tool into the side of AC Sub Connector to complete the removal.

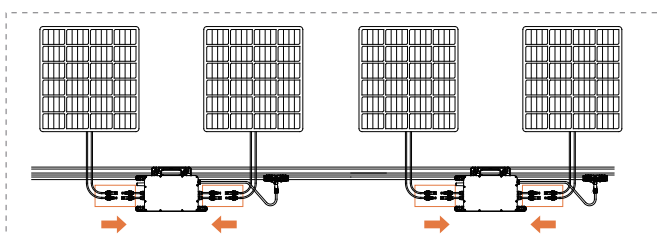
4. Create an Installation Map

- Peel the removable serial number label from each microinverter.
- Affix the serial number label to the respective location on the installation map (please refer to the appendix).



5. Connect PV Modules

- Mount the PV modules above the microinverter.
- Connect the PV modules DC cables (MC4) to the DC input of the microinverter.



- Note:
1. Make sure that the AC Trunk Connectors are kept away from any drainage channels.
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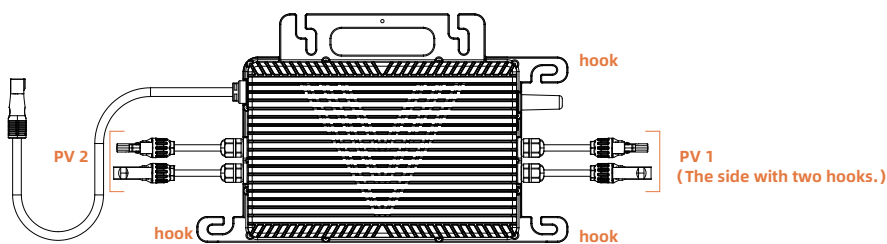
6. Set up Monitoring System

- Please download the "VaySunic Cloud" from the App Store / Play Store .
- Please refer to the "Quick Installation Guide for VaySunic Cloud" to set up monitoring system.



VM P2 series Quick Installation Guide

Application to VM 600/700/800/900/1000 -P2 microinverters



Tools: Allen key, wrench

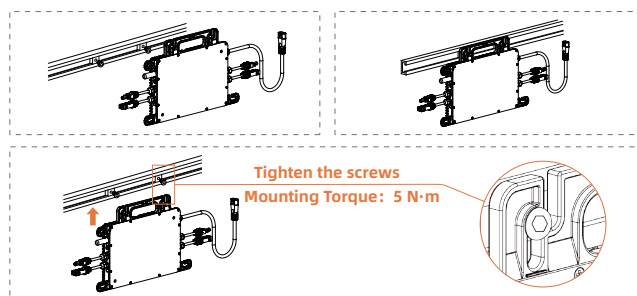
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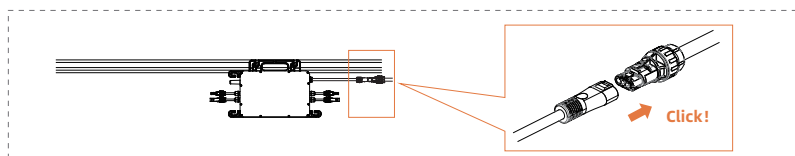
Installation:

- Fix the screws on the rail according to the PV module layout.
- Hang the microinverter on the screws, and tighten the screws. The label side of the microinverter should be facing the panel.

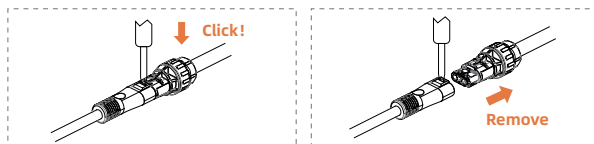


2. Complete the AC Connection

- Plug the AC Sub Connector of the microinverter into the AC Connector until you hear the click.



- Connect the AC end cable to the distribution box, and wire it to the local grid network.
- Please plug the AC Port in vacant AC Port to make it water-proof and dust-proof.

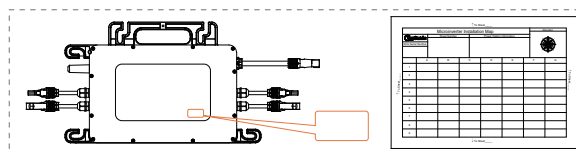


Note:

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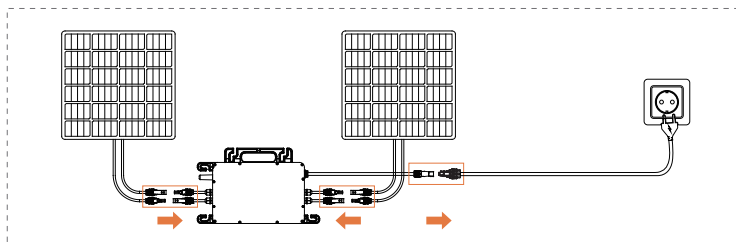
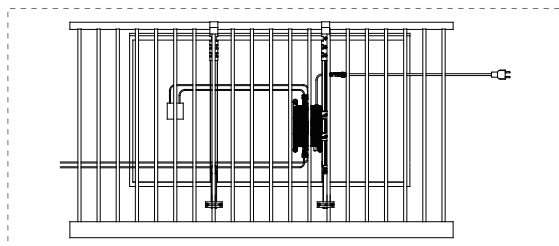
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