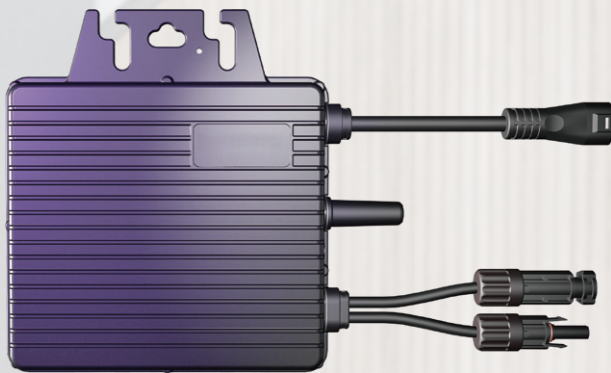


VM Series

VM350 400 450 500WE/BE-P1



HIGHER YIELDS

60°C full power operation
Great performance in low sunlight



SAFETY&RELIABILITY

RSD Compliance
IP67



FLEXIBLE INSTALLATION

Designed for multiple applications



STRONG COMMUNICATION

Encrypted WiFi/Sub-1G Solution
for Residential & Commercial

Technical Specifications

VM-P1

Model	VM350BE-P1	VM400BE-P1	VM450BE-P1	VM500BE-P1
	VM350WE-P1	VM400WE-P1	VM450WE-P1	VM500WE-P1
Input Data (DC)				
Commonly Module Power (W)	280 to 470+	320 to 540+	360 to 600+	400 to 670+
Operation Voltage Range (V)	14-63			
MPPT Voltage Range (V) ¹	14-63			
Start-up Voltage (V)	18			
Maximum Input Voltage (V)	63	63	63	63
Maximum Input Current (A)	18	18	18	18
Maximum Input Short Circuit Current (A)	20	25	25	25
Minimum operating PV voltage (V)	16			
Number of MPPTs	1			
Number of Inputs per MPPT	1			
Output Data (AC)				
Rated Output Power (VA)	350	400	450	500
Rated Output Current (A)	1.5	1.7	2.0	2.2
Maximum Units per 10AWG Branch ²	21	18	16	14
Maximum Units per 12AWG Branch ²	13	11	10	9
Nominal Output Voltage (V) ³	230/240			
Nominal Frequency (Hz)	50			
Power Factor (adjustable)	>0.99(default)			
Total Harmonic Distortion	<3%			
Efficiency				
CEC Peak Efficiency	96.80%	96.80%	96.60%	96.60%
Nominal MPPT Efficiency	99.80%			
Nighttime Power Consumption (mW)	< 50			
Packing Configuration				
Container	20'GP / 40'HQ			
Pieces/Pallet	1100*1100			
Pallets per Container	20 / 40			
Pieces per Container	6000 / 12000			
General Data				
Ambient Temperature Range (°C)	-40 to +65			
Altitude (m)	2000			
Dimensions (W x H x D mm)	181 × 203 × 31			
Weight (kg)	1.75			
Enclosure rating	Outdoor IP67 (NEMA 6)			
Cooling	Natural Convection (no fans)			
Communication	WIFI(WE-P1) / Sub-1G(BE-P1)			
Monitoring	Cloud ⁴			
Type of Isolation	Galvanically Isolated			
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, TORErzeuger, 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 The output power may vary with the output voltage.

*2 Refer to local requirements for exact number of microinverters per branch.

*3 Nominal voltage/frequency can vary depending on local requirements.

*4 Monitoring System.