

# V Series

VM350W/400W/450W/500W-P1



## HIGHER YIELDS

Up to 30% More Energy  
50 °C full power operation



## SAFETY&RELIABILITY

RSD Compliance  
IP67



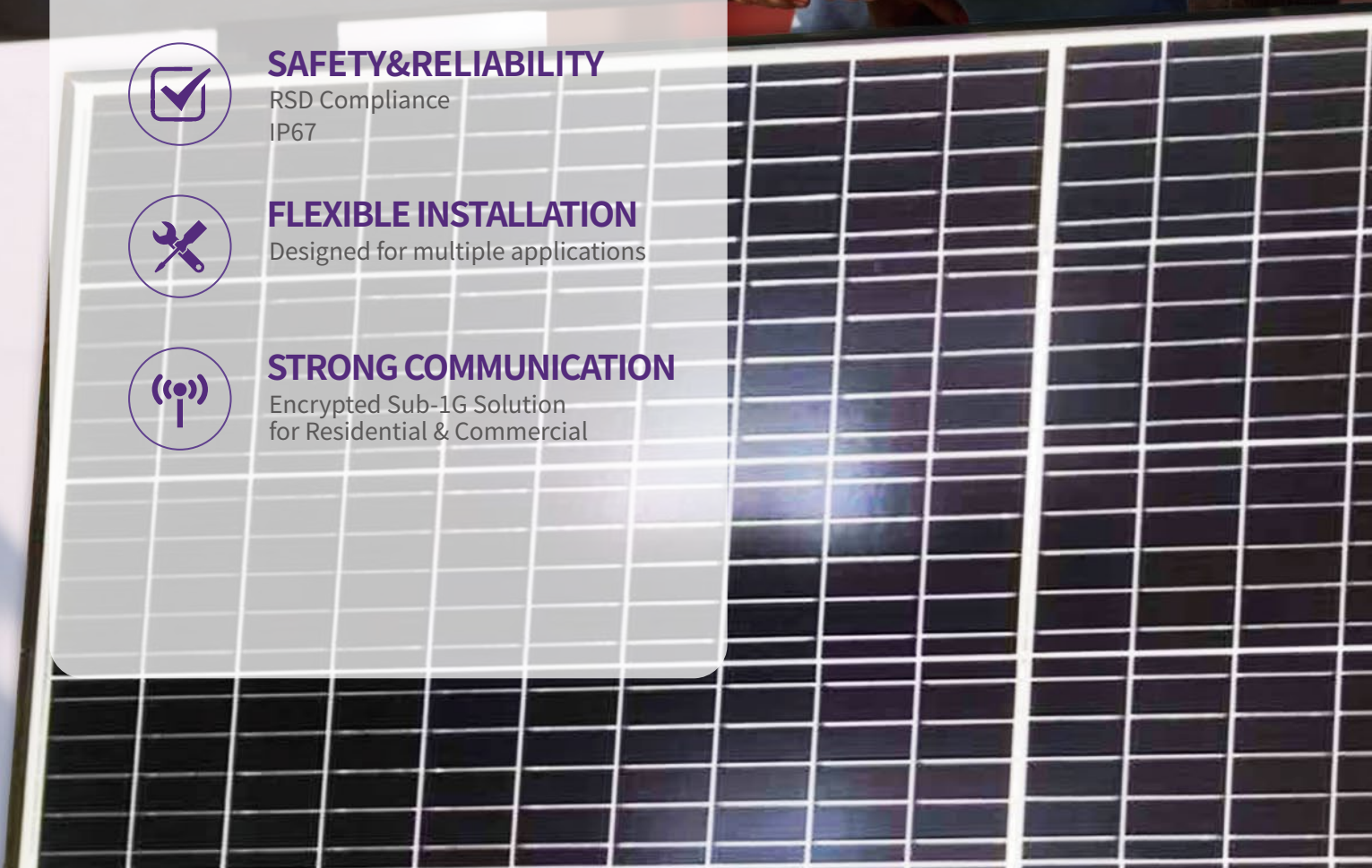
## FLEXIBLE INSTALLATION

Designed for multiple applications



## STRONG COMMUNICATION

Encrypted Sub-1G Solution  
for Residential & Commercial



# Technical Specifications

VM-P1

Model	VM350W-P1	VM400W-P1	VM450W-P1	VM500W-P1
	VM350WE-P1	VM400WE-P1	VM450WE-P1	VM500WE-P1
<b>Input Data (DC)</b>				
Commonly Module Power (W)	280 to 470+	320 to 540+	360 to 600+	400 to 670+
MPPT Voltage Range(V) <sup>1</sup>	33-48			
Start-up Voltage (V)	22			
Maximum Input Voltage (V)	63	63	63	63
Maximum Input Current (A)	14	15	16	17
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			
<b>Output Data (AC)</b>				
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 <sup>2</sup>	21	18	16	14
Maximum Units per 12AWG Branch <sup>2</sup>	13	11	10	9
Nominal Output Voltage/Range (V) <sup>3</sup>	230/240			
Nominal Frequency/Range (Hz)	50			
Power Factor (adjustable)	>0.99(default)			
Total Harmonic Distortion	<3%			
<b>Efficiency</b>				
CEC Peak Efficiency	96.80%	96.80%	96.60%	96.60%
Nominal MPPT Efficiency	99.80%			
Nighttime Power Consumption (mW)	< 50			
<b>Packing Configuration</b>				
Container	40'HQ / 20'HQ			
Pieces/Pallet	300 / 300			
Pallets per Container	40 / 20			
Pieces per Container	12000 / 6000			
<b>General Data</b>				
Ambient Temperature Range (°C)	-40 to +65			
Altitude (m)	2000			
Dimensions (W x H x D mm)	300 × 126 × 32			
Weight (kg)	1.75			
Enclosure rating	Outdoor IP67 (NEMA 6)			
Cooling	Natural Convection (no fans)			
Communication	Sub-1G			
Monitoring	Vaysunic Cloud <sup>4</sup>			
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, 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 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 range can vary depending on local requirements.

\*4 Vaysunic Monitoring System.