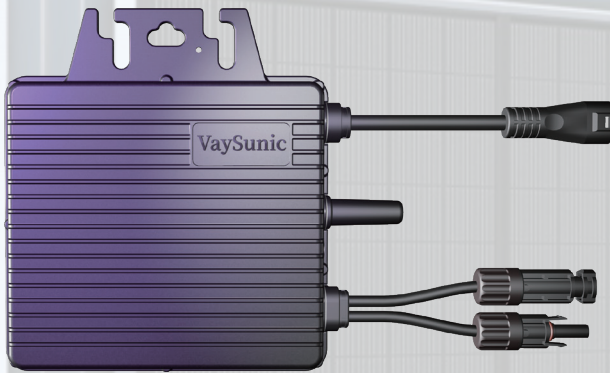
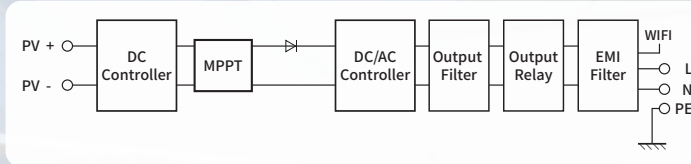


SolarCore Series

VM350 400 450 500WE-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 Solution for
Residential & Commercial

Model	VM350WE-P1	VM400WE-P1	VM450WE-P1	VM500WE-P1
Input Data (DC)				
Commonly Module Power (W)	280 to 470W+	320 to 540W+	360 to 600W+	400 to 670W+
Operation Voltage Range (V)	14-63V			
MPPT Voltage Range (V) ¹	16-60V			
Start-up Voltage (V)	18V			
Max. Input Voltage (V)	63V			
Max. Input Current (A)	18A			
Max. Input Short Circuit Current (A)	20A	25A	25A	25A
DC Portbackfeed Current (A)	0			
Overvoltage Class DC Port	II			
Number of MPPTs	1			
Number of Inputs per MPPT	1			
Output Data (AC)				
Rated Output Power (VA)	350VA	400VA	450VA	500VA
Rated Output Current (A)	1.69A	1.92A	2.18A	2.41A
Max. Units per 2.5mm ² Branch ²	15	13	12	11
Max. Units per 4mm ² Branch ²	21	18	16	14
Nominal Output Voltage (V) ³	230 / 240V			
Nominal Frequency (Hz)	50Hz			
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)	<50mW			
Packing Configuration				
Container	20'GP / 40'HQ			
Pieces/Pallet	1135 * 990 * 120mm			
Pallets per Container	20 / 48			
Pieces per Container	4560 / 11520			
General Data				
Ambient Temperature Range (°C)	-40 to +65°C			
Dimensions (W x H x D mm)	181 × 203 × 32mm (Metal Housing)			
Weight (kg)	1.75kg			
Zero Injection	Supported (Optional)			
Enclosure Rating	Outdoor IP67 (NEMA 6)			
Relative Humidity	0 ~ 100%, No Condensing			
Max. Operation Altitude (m)	2000m			
Pollution Degree	III			
Cooling	Natural Convection (no fans)			
Communication	WIFI			
Monitoring	VIP Cloud ⁴			
Type of Isolation	Galvanically Isolated			
Compliance	EN/IEC62109-1/2, EN/IEC61000-6-1/-2/-3/-4, EN/IEC62311:2020, EN50665:2017, EN50549-1:2019, EN50549-10:2022, EN300328, EN301489-1/-17, VDE-AR-N4105:2018			

*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 VaySonic Intelligent Power Monitoring System.