

M1 Series Microinverter

M1-300/350/400/450/500



SAFETY

Low DC 60V voltage & rapid shut down



EFFICIENCY

High efficiency, up to 500w



COMMUNICATION

MESH networking with wide coverage



SMART

Module-level smart real-time monitoring



PROTECTION

High reliability IP67 enclosure



M1 Series

Technical Specifications

Model	M1-300W	M1-350W	M1-400W	M1-450W	M1-500W
	M1-300G	M1-350G	M1-400G	M1-450G	M1-500G
	M1-300WG	M1-350WG	M1-400WG	M1-450WG	M1-500WG
Input Data (DC)					
Max. Input Voltage (Vdc)	60				
MPPT Voltage Range (Vdc)	16-60				
Start-up Voltage (Vdc)	22				
Full Load MPPT Voltage Range (Vdc)	32-48				
Max. Input Current I _{max} (A)	10	12	13	15	16
Max. Input Short-circuit Current I _{sc} (A)	25				
Number of MPPTs	1				
Output Data (AC)					
Nominal Output Power (Wp)	300	350	400	450	500
Nominal/Max. Apparent Power (VA)	300/300	350/350	400/400	450/450	500/500
Max. Active Power (Wp)	300	350	400	450	500
Nominal Output Current (A/V)	1.36/220	1.59/220	1.82/220	2.05/220	2.72/220
	1.30/230	1.52/230	1.74/230	1.96/230	2.17/230
	1.25/240	1.46/240	1.67/240	1.88/240	2.08/240
Nominal Voltage/Range (V)	220/230/240				
Nominal Frequency/Range (Hz)	50/60				
Power Factor	>0.99				
THDi	<3%				
Efficiency					
Peak Efficiency	96.5%				
MPPT Efficiency	99.9%				
Protection Function					
Ground Fault Monitoring, Output Overvoltage Protection, Anti-islanding Protection, DC reverse connection protection					
Others					
Dimensions (H*W*D, mm)	201*172*37				
Enclosure Material	ADC12 Aluminium Alloy				
Weight (kg)	1.95				
Over Voltage Class	AC Class III/PV Class II				
Operation Ambient Temperature (°C)	-40 ~ 65				
Full Load Ambient Temperature (°C)	45				
Enclosure Rating	IP67				
Cooling	Natural Convection (No Fans)				
Communication	Built in WiFi, Sub-1G, WiFi&Sub-1G				

*Design and specifications are subject to change without notice