

# MI1kW1P

## Microinverter

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The 2x500W is a high power, ultra-compact microinverter for solar system application:

- Max PV input power 600W
- Max. Efficiency 96.4%
- Form factor 224 x 255 x 60.5 mm
- Full featured protection
- Remote/On-site monitoring

### Easy Setup & Installation

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Wide operating ranges for solar system application flexibility. IP67 rating.

### High Performance

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Isolated topology with peak efficiency up to 96.4% and MPPT efficiency >99%.

### Remote/On-site Monitoring

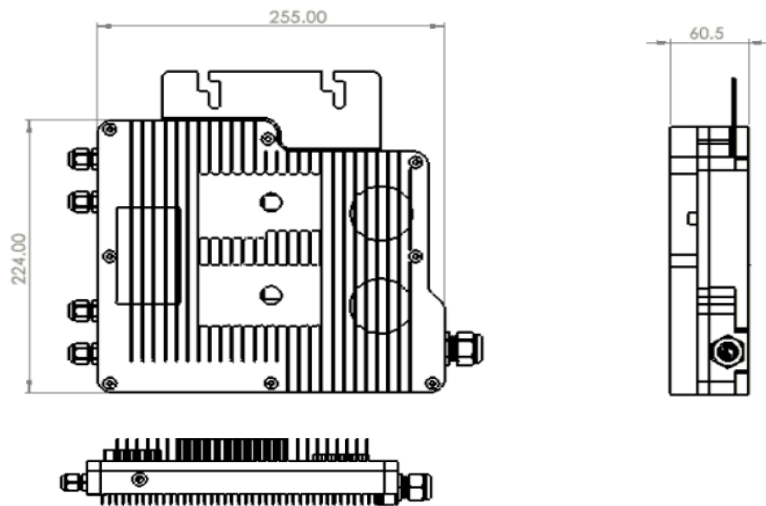
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Remote monitoring with Wi-Fi IoT communication.

Product Specification	
PV Input (DC)	
PV Max Input Power	600 W
Max. PV Input Voltage	60 V
Start-up Voltage	20 V
MPPT Voltage Range	22 V – 50 V
Rated PV Input Voltage	42.5 V
Max. Operating PV Input Current	16 A x 2
Max. Input Short Circuit Current	21 A x 2
No. of MPP Trackers	2
Output (AC)	
Rated AC Output Active Power	1000 W
Max. AC Output Apparent Power	1000 W
Rated AC Output Current	4.5 A
Max. AC Output Current	4.5 A
Rated Output Voltage	220 V
Output Voltage Range	198 V – 242 V
Grid Connection Form	L/N/PE
Rated Output Grid Frequency	50/60 Hz
Output Grid Frequency Range	45 – 55 Hz / 55 – 65 Hz
Max. Unit per Branch	TBD
Power Factor Adjustment Range	0.85 leading - 0.85 lagging
Total Current Harmonic Distortion THDi	< 4 % @ Rated input voltage & > 50 % Rated output power
Efficiency	
Max. Efficiency	96.40 %
Euro Efficiency	94.40 %
MPPT Efficiency	> 99 %
Equipment Protection	
AC Output Overcurrent Protection	Yes
AC Output Overvoltage Protection	Yes
Thermal Protection	Yes
Overvoltage Load Drop Protection	Yes
General Data	
Operating Temperature Range	-40°C to +65°C, Derating at 45°C and above
Permissible Ambient Humidity	0 – 100 %

Permissible Altitude	2000 m
Noise	≤ 25 dB
Ingress Protection (IP) Rating	IP 67
Inverter Topology	Isolated
Communication	Wi-Fi
Cabinet Size (W x H x D)	224 mm x 255 mm x 60.5 mm (Excluding Connectors and Brackets)
Weight	4.2 kg
Type of Cooling	Natural Cooling
Mounting method	Bracket mounted

## Dimension



## Efficiency

	Vin				
	34	36	38	40	42
5%	78.2%	76.9%	77.0%	77.4%	75.2%
10%	86.8%	87.0%	87.2%	85.9%	85.7%
20%	93.4%	93.4%	93.2%	92.9%	92.8%
30%	95.0%	95.0%	95.1%	94.8%	94.7%
40%	96.0%	96.1%	95.9%	95.8%	95.6%
50%	96.4%	96.4%	96.4%	96.3%	96.3%
60%	96.4%	96.4%	96.4%	96.4%	96.4%
70%	96.0%	96.3%	96.4%	96.4%	96.4%
80%	95.7%	96.2%	96.2%	96.3%	96.4%
90%	95.5%	96.0%	96.1%	96.2%	96.2%
100%		95.8%	95.8%	96.0%	96.0%