ATMOCE

Data Sheet

MI-series Microinverter

MI-1200-2M/ MI-1000-2M / MI-900-2M/ MI-800-2M

Key Features

Reliability

- Up to 25-year warranty
- 350m PLC communication range
- No single point of failure
- Natural cooling & IP67 protection rating

Scalability

- One SKU for all scenarios
- Flexible expansion up to MW scale
- Lightweight design for faster installation & easier O&M

Efficiency

- 98.2% peak efficiency and 97.7% EU efficiency
- 1250 W maximum output power
- Up to 50% higher energy yield
- Wide MPPT voltage range for flexible system design
- MLPE architecture eliminates system bottlenecks

Smart

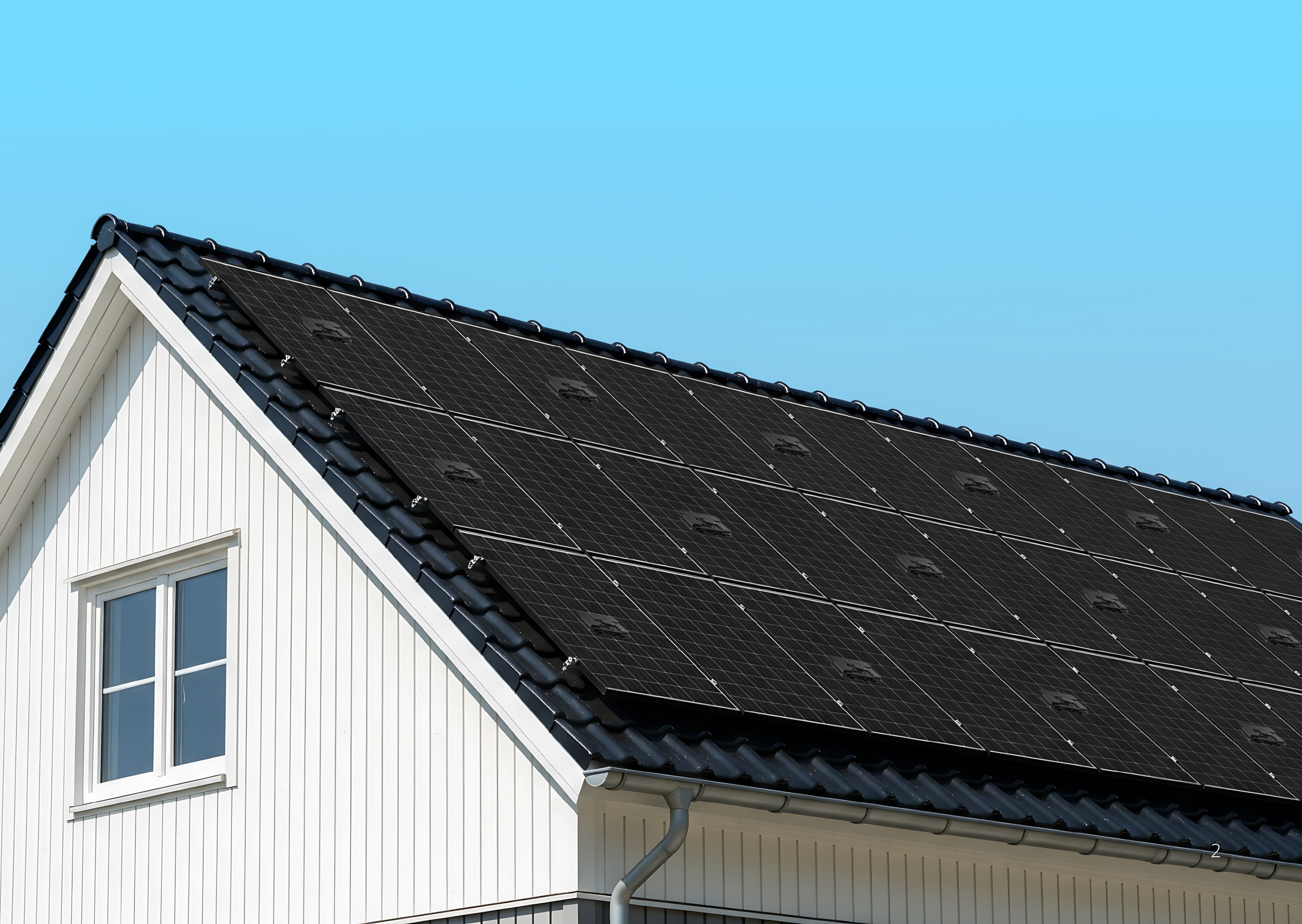
- 5-min commissioning
- Module-level diagnosis, control and intelligence
- AI-driven O&M for all components
- PV array layout generated from photos

Safety

- <60Vdc human-operation-safety voltage
- Zero DC arc risk
- Module-level rapid shutdown

Scenario-based

- Grid-to-module power transfer
- Active snow removal technology
- Matrix phase configuration

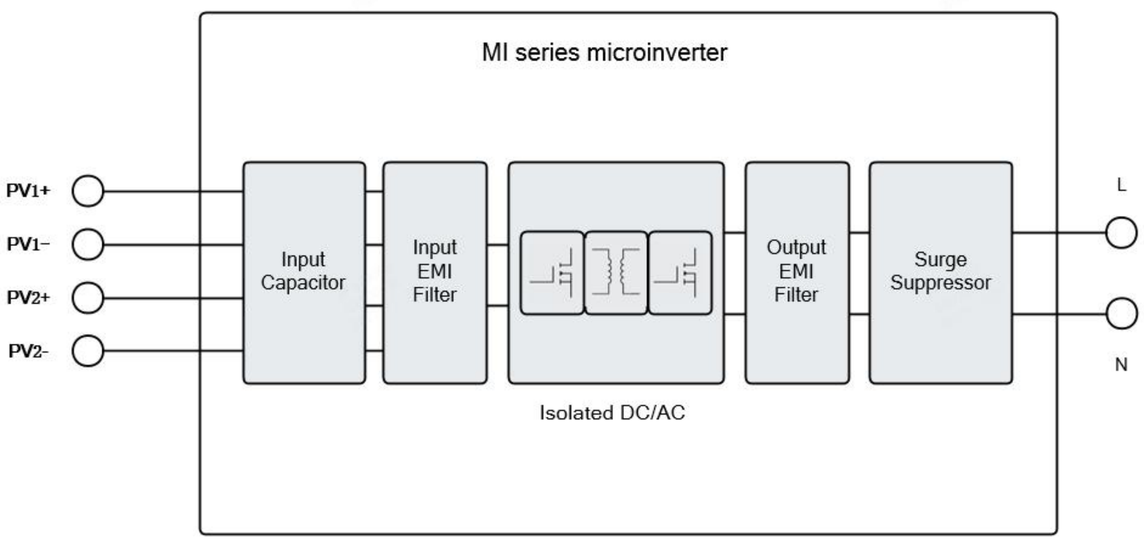


Model	Unit	MI-1200-2M	MI-1000-2M	MI-900-2M	MI-800-2M
Input parameters					
PV module compatibility		54-cell/108 half-cell, 60-cell/120 half-cell, 66-cell/132 half-cell and 72-cell/144 half-cell			
Min./Max. input voltage	U_{dcmin}/U_{dcmax}, V	16 to 60			
Peak power tracking voltage range	U_{mppmin}/U_{mppmax}, V	39 to 55	33 to 55	30 to 55	28 to 55
MPPT voltage range	U_{mppt}, V	16 to 60			
Nominal input voltage	U_{dcnom}, V	42			
Start-up input voltage	$U_{dcstart}$, V	22			
Max. continuous input current (per PV input)	I_{dcmax}, A	20			
Max. input short-circuit current (per PV input)	I_{scmax}, A	25			
DC port overvoltage class		II			
DC port backfeed current	A	0			
PV array configuration		1 x 1 ungrounded array			
Output parameters					
Nominal voltage	U_{acnom}, V	220/230/240			
Voltage range	U_{acmin}/U_{acmax}, V	176 to 276			
Nominal output power	P_{acnom}, W	1200	1000	900	800
Max. apparent power	S_{acmax}, VA	1200	1000	900	800
Nominal output current @220Va.c.	I_{acnom}, A	5.45	4.55	4.09	3.64
Nominal output current @230Va.c.	I_{acnom}, A	5.22	4.35	3.91	3.48
Nominal output current @240Va.c.	I_{acnom}, A	5.00	4.17	3.75	3.33
Max. output current @220Va.c.	I_{acmax}, A	5.73	4.77	4.30	3.82
Max. output current @230Va.c.	I_{acmax}, A	5.48	4.57	4.11	3.65
Max. output current @240Va.c.	I_{acmax}, A	5.25	4.38	3.94	3.50
Max. microinverters / 20A branch circuit		3	3	4	4
Max. microinverters / 25A branch circuit		3	4	5	5
Nominal frequency	f_{nom}, Hz	50/60			
Extended frequency range	f_{min}/f_{max}, Hz	45 to 65			
Power consumption at night	mW	0[a]			
AC port overvoltage class		III			
Power factor setting	cosphi	>0.99			
Power factor (adjustable)		0.8 leading ... 0.8 lagging			
Total harmonic distortion	THDi	<1.5%			
AC surge protection		TYPE II			
Efficiency parameters					
Peak efficiency	η_{max}, %	98.2			
EU efficiency	η_{EU}, %	97.7			
MPPT efficiency	η_{MPPT}, %	99.9			

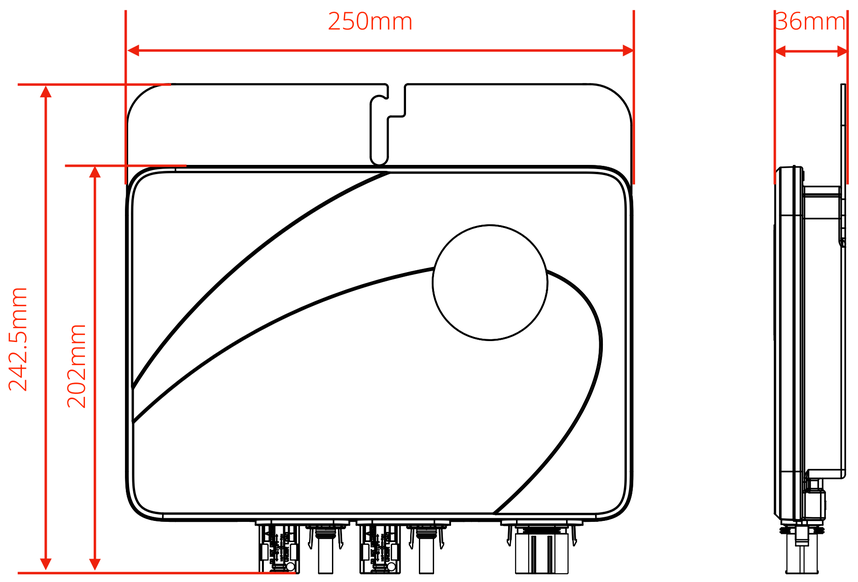
a. The value is tested with M-Relay or M-Combiner.

Model	Unit	MI-1200-2M	MI-1000-2M	MI-900-2M	MI-800-2M
Mechanical parameters					
Ambient temperature range	°C	-40 to 65			
Storage temperature range	°C	-40 to 85			
Relative humidity range	%	4 to 100, condensing			
DC connector type		Stäubli MC4			
Number of DC connectors		2 pair			
AC connector type		MT-02502-A[b]			
Number of AC connectors		1 pair			
Dimensions (without bracket)	mm	250 × 202 × 36 (W x H x D)			
Weight (without bracket)	kg	2.1			
Cooling		Natural convection			
Approved for wet locations		Yes			
Pollution degree		III			
Topology		Isolated			
Enclosure protection class		Class II double-insulated			
Environmental category		Outdoor - IP67			
Altitude	m	3000			
Noise	dB	<25			
Features					
Indicator		1 × LED			
Communication		PLC			
Number of MPPT		1			
Anti-islanding protection		Yes			
Compliance					
Safety		IEC 62109-1/-2			
EMC		IEC 61000-6-1/-2/-3/-4, EN 62920			
Grid compliance		VDE 0124, VDE 4105, UTE 0126, EN 50549, EN 50530			

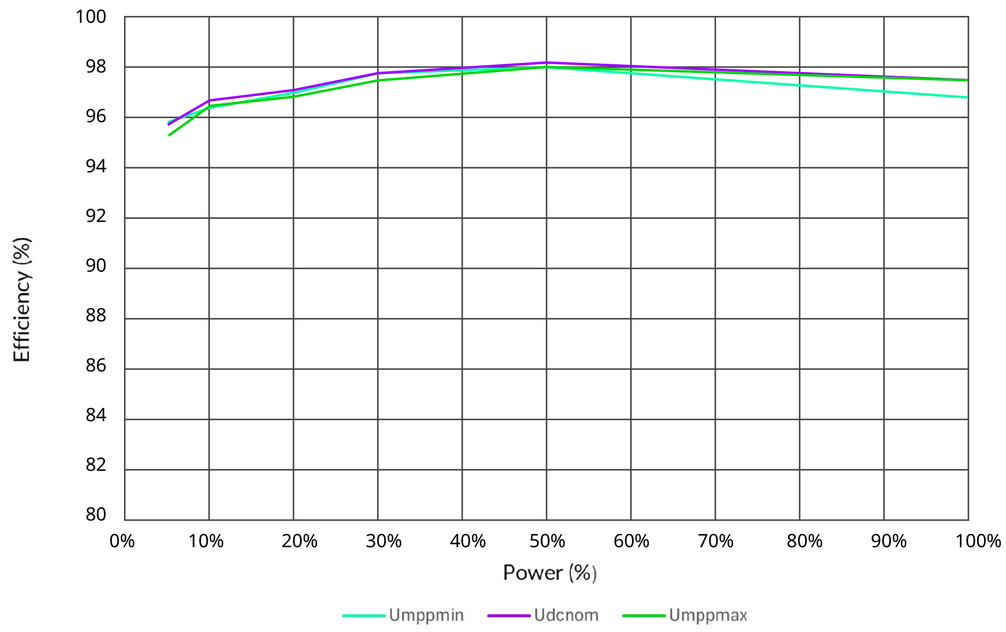
MI–Series 2-in-1 Microinverter Electrical Topology



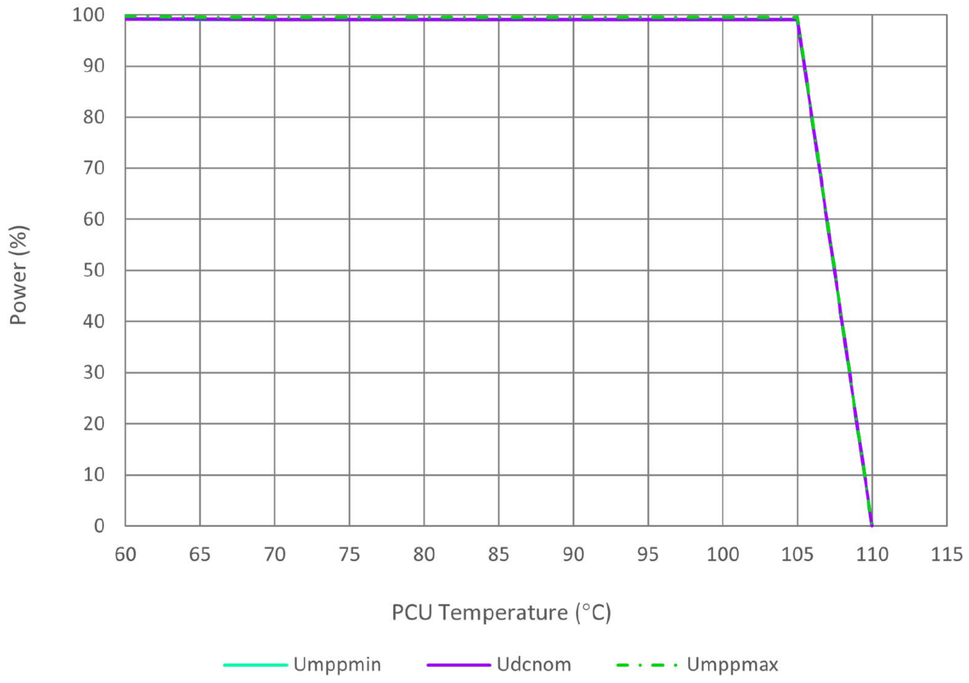
MI–Series 2-in-1 Microinverter Dimension in mm



MI–Series 2-in-1 Microinverter Efficiency Curve



MI–Series 2-in-1 Microinverter Derating Power VS. Temperature



b. The AC connector must be used with MW-Cables.

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