ATMOCE

Data Sheet

MI-Series Microinverter

MI-1250 / MI-1100 / MI-1000 / MI-900 / MI-800

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Key Features

Reliability

- 15-year warranty
- 350m stable PLC communication
- Single point of failure protection
- Non-commercial-grade chips and antennas

Efficiency

- World record-shattering peak efficiency of 98.2%
- High-output up to 1250W
- World's highest power density with lightweight design
- Install in any orientation to increase annual yield by 25-50%
- Individual MPPT prevents power loss from shading

Safety

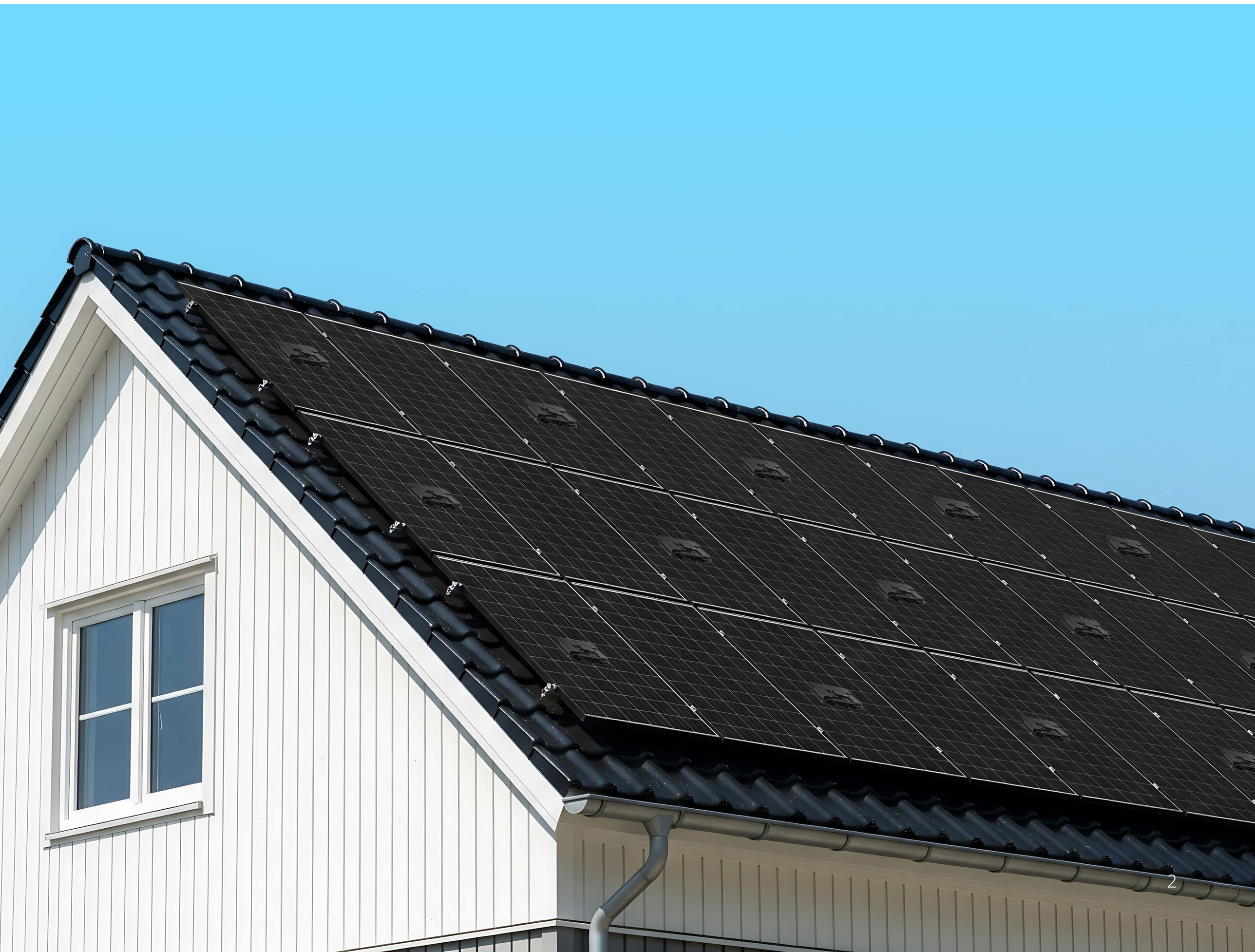
- Extra low voltage < 60Vdc
- Polymer shell for inherent safety, no additional PE
- Easy maintenance with MLPE tech
- Temperature detection of DC terminals

Scalability

- Flexible expansion for systems up to MW scale
- One SKU for single-phase and three-phase
- One SKU supports all PV modules
- Seamless plug-and-play system integration

Smart

- Deploy in 1-minute with photo scan
- AI-powered PV detection for smarter, faster, and more accurate O&M



Model	Unit	MI-1250	MI-1100	MI-1000	MI-900	MI-800
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	16/60				
Peak Power Tracking Voltage Range	U_{mppmin}/U_{mppmax}, V	41 to 55	36 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	I_{dcmax},A	20				
Max. Input Short-Circuit Current	I_{scmax},A	25				
DC Port Overvoltage Class		II				
DC Port Backfeed Current	A	0				
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	1250	1100	1000	900	800
Max. Apparent Power	S_{acmax}, VA	1250	1100	1000	900	800
Nominal Output Current @220Va.c.	I_{acnom}, A	5.68	5.00	4.55	4.09	3.64
Nominal Output Current @230Va.c.	I_{acnom}, A	5.43	4.78	4.35	3.91	3.48
Nominal Output Current @240Va.c.	I_{acnom}, A	5.21	4.58	4.17	3.75	3.33
Max. Output Current @220Va.c.	I_{acmax}, A	5.97	5.25	4.77	4.30	3.82
Max. Output Current @230Va.c.	I_{acmax}, A	5.71	5.02	4.57	4.11	3.65
Max. Output Current @240Va.c.	I_{acmax}, A	5.47	4.81	4.38	3.94	3.50
Max. Microinverters / 32A Branch Circuit -Three phase		15	15	18	21	21
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}, %	97.5				
MPPT Efficiency	η_{MPPT}, %	99.9				

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

Model	Unit	MI-1250	MI-1100	MI-1000	MI-900	MI-800
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 pairs		
AC Connector Type				MT-02502-A[b]		
Number of AC Connectors				1 pair		
Dimensions (without Bracket)	mm			250 × 202 × 35 (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		
Indicator				1 x LED		
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, AS 4777.2		

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

Disclaimer: Performance figures are obtained under specific testing conditions by ATMOCE's internal laboratory. These values are not guarantees, and actual performance is subject to variation depending on the final product design, software versions, user behavior, and the operational environment.

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