

ATMOCE

Data Sheet

MI Series Microinverter

MI-1250/MI-1200/MI-1000/MI-900/MI-800



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Model		MI-1250	MI-1200	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	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	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			184 to 276		
Nominal Output Power	P_{acnom} , W	1250	1200	1000	900	800
Max. Apparent Power	S_{acmax} , VA	1250	1200	1000	900	800
Nominal Output Current @220Va.c.	I_{acnom} , A	5.68	5.45	4.55	4.09	3.64
Nominal Output Current @230Va.c.	I_{acnom} , A	5.43	5.22	4.35	3.91	3.48
Nominal Output Current @240Va.c.	I_{acnom} , A	5.21	5.00	4.17	3.75	3.64
Max. Output Current @220Va.c.	I_{acmax} , A	5.97	5.73	4.77	4.30	3.82
Max. Output Current @230Va.c.	I_{acmax} , A	5.71	5.48	4.57	4.11	3.65
Max. Output Current @240Va.c.	I_{acmax} , A	5.47	5.25	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		
Mechanical Parameters						
Ambient Temperature Range	°C			-40 to 65		
Storage Temperature Range	°C			-40 to 85		
Relative Humidity Range	%			4 to 100, condensing		

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

Model		MI-1250	MI-1200	MI-1000	MI-900	MI-800
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 × H × D)		
Weight (without Bracket)	kg			2.2		
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						
Communication				PLC		
Indicator				1 × 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		

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