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 x H x 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.

Preliminary For Mavisun

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