ATMOCE

M-Gateway

MG100

Data Sheet

Key Features

Safety & Reliability

- Smart home energy management
- Enables remote management
- All-in-one app to guide the installation and configuration

High Power Capability

- Microinverters up to 90 units
- Multiple communication methods: PLC, Wi-Fi, ETH, BLE, RS485, CAN, etc.

Flexibility & Intelligence

- Simultaneous Bluetooth and Wi-Fi communication
- PLC high reliability
- Stable communication

Easy Installation

- Pre-installed and pre-connected
- Easy system activation by using the ATMOZEN app
- Adaptability to different scenarios

Items	Unit	MG100	
Electrical parameters			
Grid setup		Single-phase	Three-phase
Nominal voltage	V	220/230/240	220/380 Va.c., 230/400 Va.c., 3/N~
Operating voltage range (L to N)	V	184 to 276	
Nominal frequency	Hz	50/60	
Extended frequency range	Hz	45 to 65	
Power consumption	W	<5 (without USB device) | < 20 (with USB device)	
Overvoltage category		III	
AC surge protection		TYPE II	
Mechanical parameters			
Dimensions (W x H x D)	mm	221 × 148 × 42	
Weight	kg	0.6	
Ambient temperature range	°C	-30 to 65	
Cooling		Natural convection	
Enclosure environmental rating		IP30	
Communication		PLC, Wi-Fi, BLE, ETH, CAN, RS485	
Noise	dB	<25	
Altitude	m	3000	
Protection class		II	
Pollution degree		II	
Communication interfaces			
PV side	PLC	Support	
	Microinverter CT	1 × CT interface	3 × CT interfaces
Grid side	Consumption CT	1 × CT interface	
Battery side	CAN	Support	
	Battery CT	1 × CT interface	3 × CT interfaces
Load side	ETH	1 × interface, 100 Mb/10 Mb auto-adaptability	
	Digital I/O	4 × 12V DO, 3 × DI	
	RS485	Support	
M-Relay	RS485	Support	
Atmoce-Cloud	Wi-Fi	2.4 GHz	
	ETH	1 × interface, 100 Mb/10 Mb auto-adaptability	
Atmozen app	BLE	2.4 GHz	
Indicators		3 × LEDs	
Maximum time of data storage		More than 1 year	
Data download		Bluetooth and Wi-Fi	
3rd party EMS access		Modbus protocol	
Compliance			
Safety		IEC 61439-1/-2	
Health		IEC 62311	
EMC		EN 301 489-1/-17, IEC 61000-6-1/-2/-3/-4	
Radio spectrum		EN 300 328	
PLC		EN 50065-1/-2	

© 2025 ATMOCE HOLDING B.V. All rights reserved.
support@atmoce.com | +31 20 241 6207
ATMOCE HOLDING B.V. | Rokin 92-96, 1012 KZ Amsterdam, the Netherlands