M-Gateway

MG100 Data Sheet

SOLARELEC.RO
SISTEME FOTOVOLTAICE

Key Features

Intelligence

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

High Performance

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

Reliable Communication

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

User-friendliness

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

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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)~
Nominal 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	
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	Comsumption 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	
Compliance				
Safety			IEC 61439-1/-2	
Health			EN IEC 62311	
EMC			EN 301 489-1/-17, EN IEC 61000-1/-2/-3/-4	
Radio spectrum			EN 300 328	
PLC			EN 50065-1/-2	

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