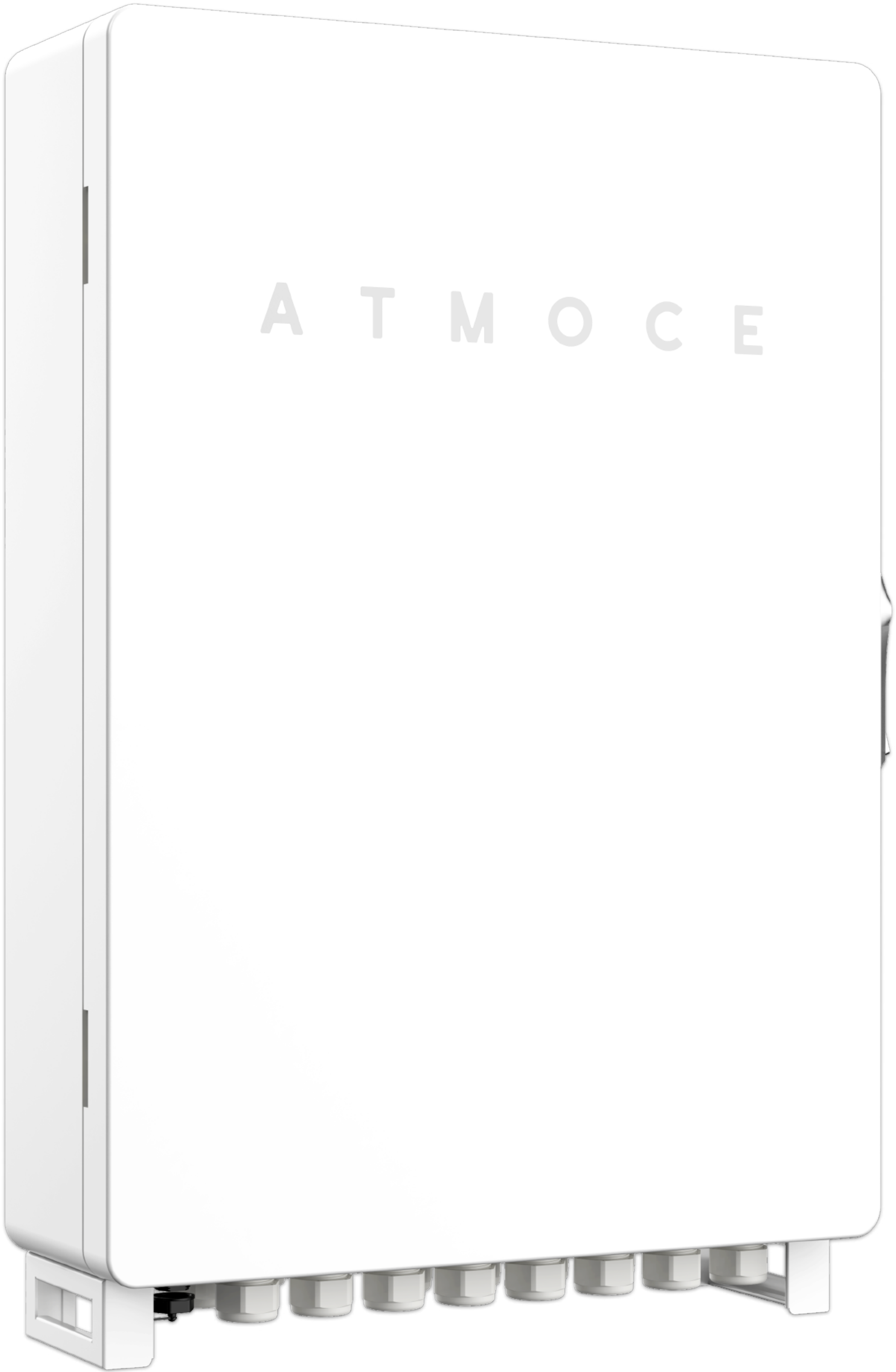


M-CombinerX

MC100-Wye-8in1



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Key Features

Reliability

- IP65 design for indoor and outdoor installations
- Stable communication: PLC > 350m, ETH of 800m
- Reliability verification in extreme scenarios

Scalability

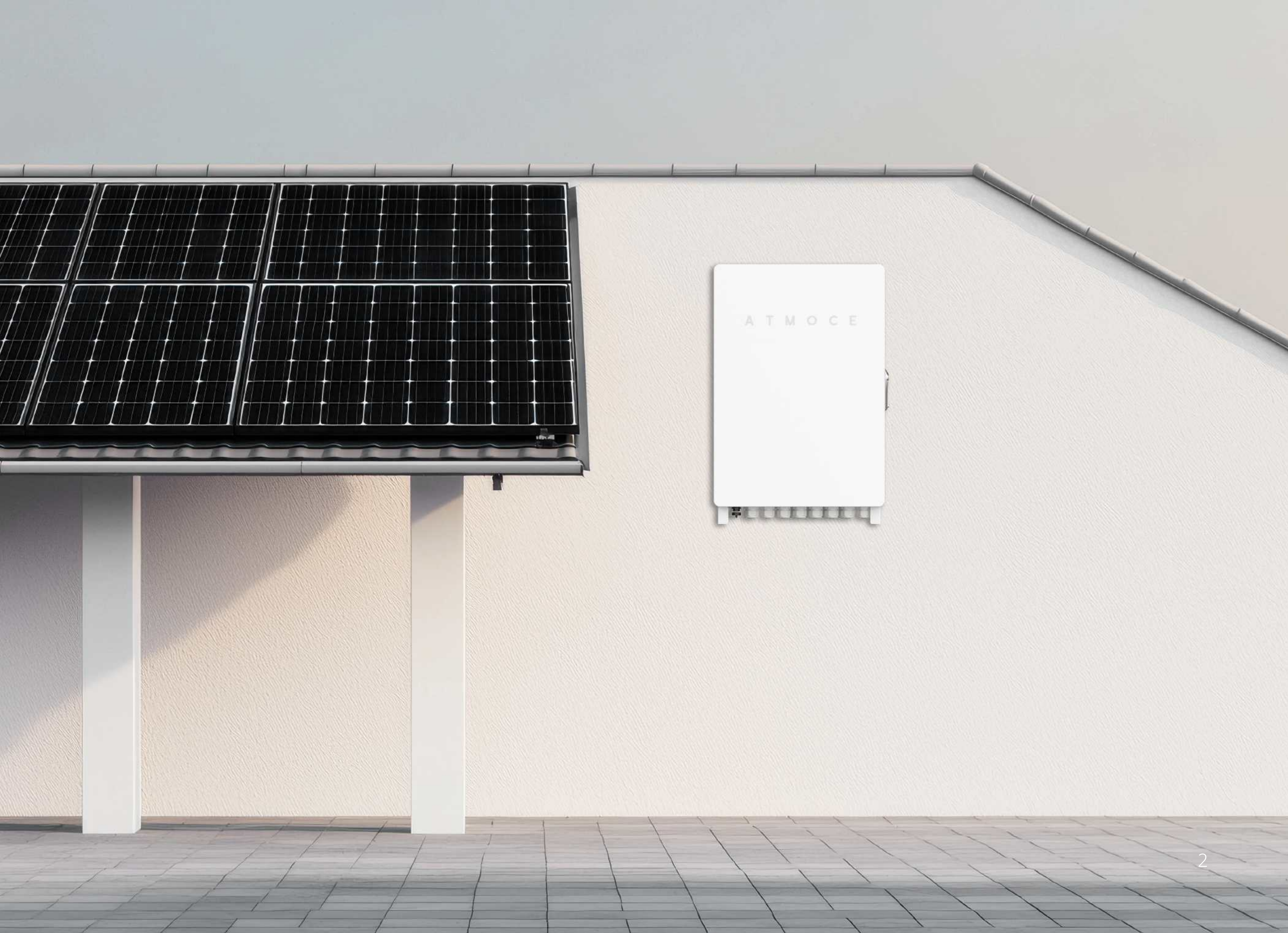
- Master-slave configuration scalable to MW-Level
- Seamless integration for both PV and energy storage systems.
- Pre-installed, pre-connected and simplified wiring for easy installation

Safety

- Comprehensive surge protection
- Complied to international safety standards

Smart

- Remote management of electricity
- Bi-directional communication between devices and ATMOCE-Cloud
- All-in-one app to guide the installation and configuration
- Easy system activation by using the ATMOZEN app



Items	Unit	M-CombinerX
What's in the CombinerX		
M-Gateway		1 × M-Gateway
SPD		1 × unit, In: 20 kA, 4-pole
SPD breaker		1 × unit, 25 A, 4-pole
Gateway breaker		1 × unit, 10 A, 4-pole
PV/Battery breaker		8× units, 32 A, 4-pole
Grid switch		1 × unit, 250 A, 4-pole
PV CT		3 × 250 A CTs, accurate up to 0.5%
NSP controller ^b		1 × unit
NSP contactor		1 × unit
Signal SPD		2 x units, Up≤30V
Electrical parameters		
Grid setup		Three-phase
Nominal voltage	V	220/380 Va.c., 230/400 Va.c., 240/415 Va.c., 3/N~
Operating voltage range (L to N)	V	176 to 276
Nominal frequency	Hz	50/60
Extended frequency range	Hz	45 to 65
Overvoltage category		III
Mechanical parameters		
Dimensions (W x H x D)	mm	600 × 850 × 200
Weight	kg	42
Ambient temperature range	°C	-30 to 50
Cooling		Natural convection
Enclosure environmental rating		Outdoor, IP65
Wire sizes ^a	mm ²	PV side: 4 to 6 Grid side: 95 to 120
Communication cable sizes	mm ²	0.25 to 0.75
Noise	dB	<25
Altitude	m	3000
Protection class		I
Pollution degree		III
Communication interfaces		
PV side	PLC	Support
Device side	ETH	1 × interface, 100 Mb/10 Mb auto-adaptability Communication range: 400m at 100Mb, 800m at 10Mb
	RS485	Support
Atmoce-Cloud	Wi-Fi	2.4 GHz
	ETH	1 × interface, 100 Mb/10 Mb auto-adaptability
ATMOZEN app	BLE	2.4 GHz
Compliance		
Safety		IEC 61439-1/-2
Health		IEC 62311
EMC		IEC 61000-6-1/-2/-3/-4
Radio spectrum		EN 301 489-1/-17, EN 300 328
PLC		EN 50065-1/-2

a. Refer to the local electrical regulations to select the cable size.

b. Network and system protection controller.