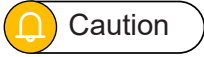




MANGO POWER Smart Gateway Lite User Manual

Important Notice & Disclaimer



Caution

Please read the product documentation thoroughly and ensure you have a complete understanding of its contents before using the Mango Power Smart Gateway Lite. Improper use may lead to serious personal injury, product damage, or significant property loss.

- **Access Latest Documentation:** Always refer to the most up-to-date documentation available at <https://www.mangopower.com/support/download/>. This version takes precedence over all previous or alternative versions.
- **Acknowledgment of Terms:** By using this product, you acknowledge and agree to comply with all terms, conditions, and safety protocols stated in the documentation.
- **Limitation of Liability:** Mango Power is not liable for any damages or losses resulting from improper use or a failure to strictly adhere to the provided instructions.
- **Right of Interpretation:** Subject to applicable laws and regulations, Mango Power reserves the right to the final interpretation of this document and all related product materials.

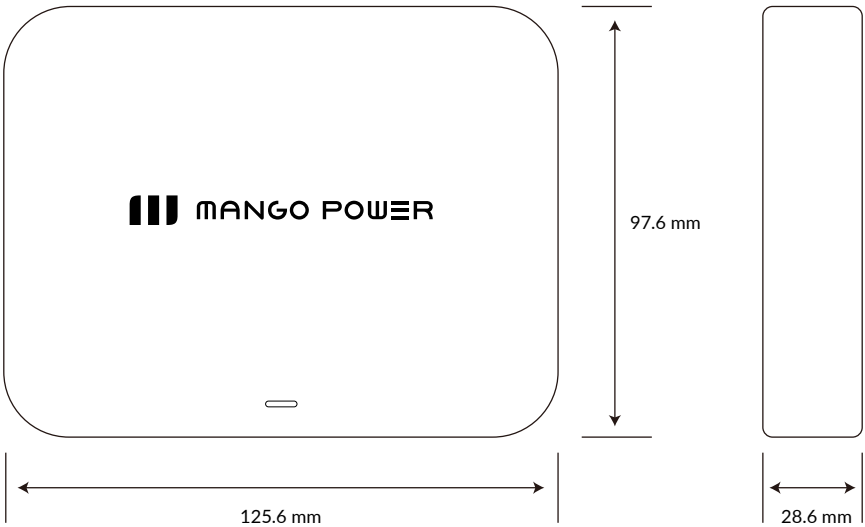
Safety Instructions



Danger

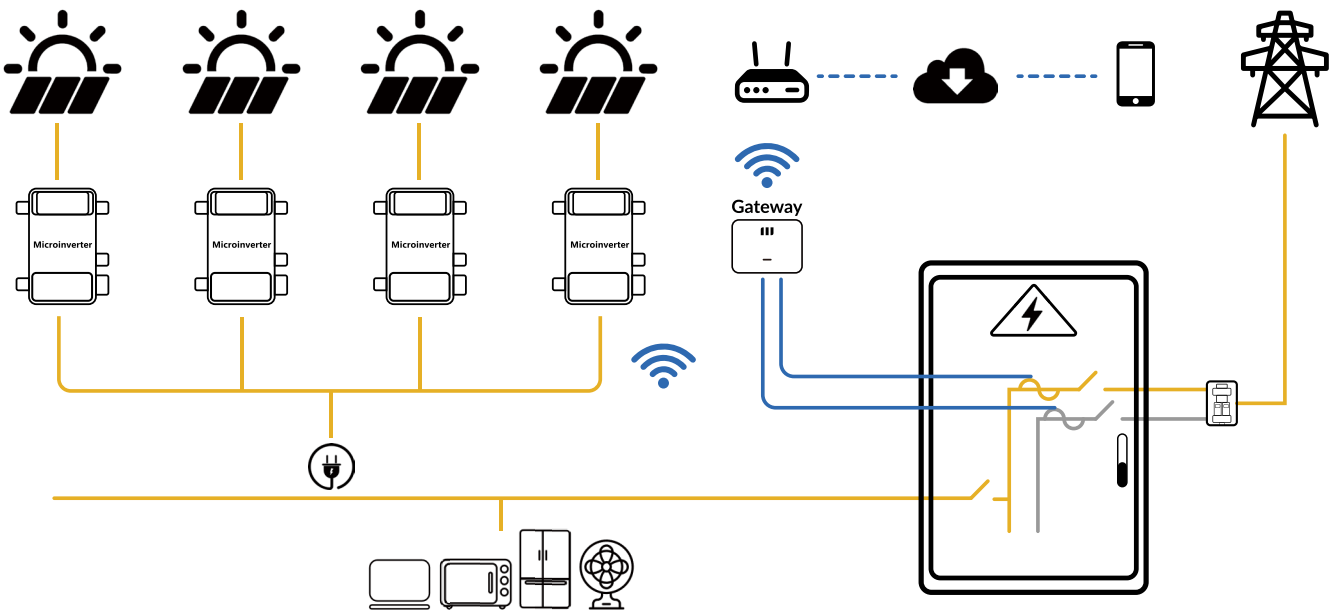
- **Danger of Electrocution:** Mounting and installation of the device to the power grid must be performed with extreme caution by a qualified electrician only.
- **Voltage Safety:** To prevent the danger of electrocution, ensure there is no voltage present at the device terminals before making any changes to the connections.
- **Compliance:** Use the device only with power grids and appliances that comply with all applicable local regulations. A short circuit in the power grid or connected appliances may result in permanent damage to the device.
- **Load Limits:** Do not connect the device to appliances that exceed the specified maximum load.
- **Correct Installation:** Connect the device strictly as shown in these instructions. Any alternative installation methods could lead to equipment damage and/or personal injury.
- **Environmental Protection:** Do not install the device in locations where it may be exposed to moisture or get wet.
- **LAN Connection:** Plug in or unplug the LAN cable only when the device is powered off. Ensure the LAN cable does not have metallic parts in areas touched by the user during handling.
- **Child Safety:** Do not allow children to play with the buttons or switches connected to the device. Keep all remote control devices for Mango Power products out of the reach of children.
- **CT Compliance:** Only use current transformers (CTs) that are fully compliant with local regulations and standards for this device.
- **Wiring Recommendation:** It is recommended to connect the device using solid single-core cables with increased insulation heat resistance of no less than PVC T 105°C (221°F).
- **Impaired Protection:** The protection provided by the device may be compromised if it is used in a manner not specified by the manufacturer.
- **Indoor Use Only**

Product Dimensions



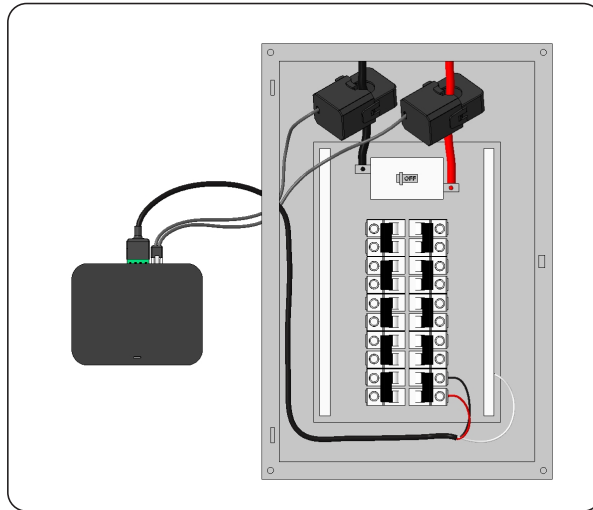
Dimensions (W / H / D)[mm] 125.6×97.6×28.6

Product Connection Diagram



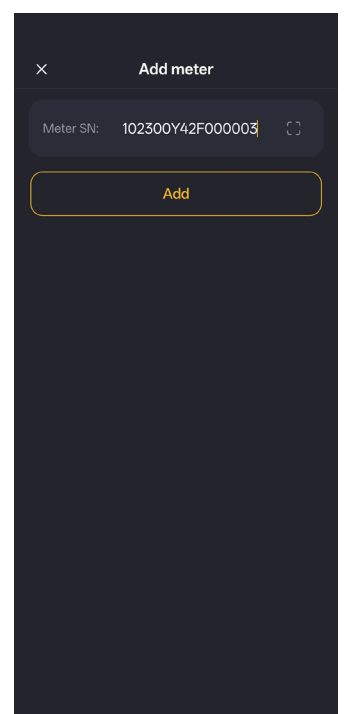
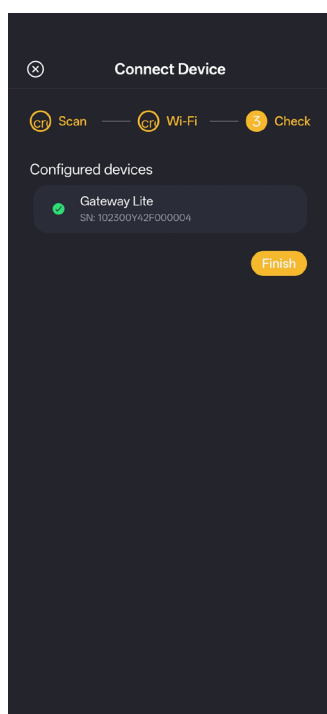
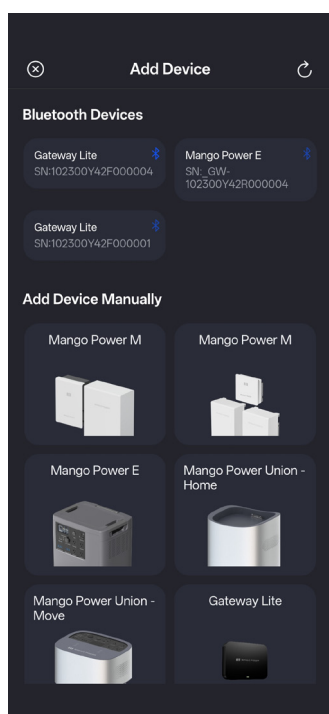
Product Installation Steps

1. CT Installation: Clamp the CTs onto L1 and L2 below the main circuit breaker respectively, ensuring they match the L1 and L2 silk-screen markings on the CTs perfectly.
2. Sampling Cable Installation: Insert the sampling cable terminal into the Gateway Lite first, then connect the wire ends to the L1 and L2 circuit breakers respectively.



APP guide

1. Tap "Add Device", select the meter device discovered by the app via Bluetooth search, choose "Add Directly", and proceed to the device network configuration process.
2. Enter the WiFi name and password, tap "Connect", and the app will send the WiFi connection information to the device group.
3. After configuration is complete, enter the meter details in the power plant and bind the meter.



LED Indicator Status

Normal operation:	Green light flashing at 1Hz.	
Voltage abnormality:	Red light is always on.	
Current Abnormality/CT Abnormality:	Red light flashing at 1Hz.	
Communication exception (off-grid):	Red light flashing at 4Hz.	
OTA:	Red and green alternating 1Hz flashing.	

Maintenance

Routine Inspection:

Periodically inspect and clean the device. As part of your routine maintenance, regularly check the device status via the Mango Power app or monitor the Power Status LED Indicator to ensure it is functioning normally.

Troubleshooting:

If the device is faulty, please refer to the in-app instructions for troubleshooting steps or contact Mango Power technical support for professional assistance.

Cleaning:

Clean the device surfaces only with a dry cloth and ensure they remain free from dust and debris.

Troubleshooting & Solutions

FaultCode	Type	Description
0000 0004 / 0000 0002 / 0000 0001	AC_OCP	Out of CT range
0000 0100 / 0000 1000 / 0001 0000	AC_OVP	Overvoltage
0000 0200 / 0000 2000 / 0002 0000	AC_UVP	Undervoltage
0010 0000	WIFI_NA	WIFI No Configured
0020 0000	WIFI_OFFLINE	WIFI Offline
0100 0000	SUB1G_NA	Sub1G No Configured
0200 0000	SUB1G_OFFLINE	Sub1G Offline

Disposal

Waste Management:

If the device reaches the end of its service life or can no longer function, dispose of it in accordance with local disposal requirements for electrical and electronic equipment waste.

Household Waste:

Under no circumstances should the device be disposed of together with regular household waste.

Specification Sheet

Models	MANGO POWER Smart Gateway Lite
Power Supply	
AC input voltage range(Vac)	100~240(L-N)
Nominal AC frequency(Hz)	60
Max. operating current(A)	200
Measurement Accuracy	
Time measurement accuracy	≤0.25s/T
Voltage accuracy	±0.5%
Current accuracy	±0.5% (2~80A),±1% (1~2A), ±2% (0~1A)
Power accuracy	±0.5%
Mains frequency accuracy	45~65Hz,± 0.2%
Communication	
Interface	Wi-Fi(2.4GHz)
Max. RF power(dBm)	<20
Communication range(m)	30m(100ft) indoors, 50m(160ft) outdoors
Features	
Phase sequence error detection	Support
CT direction reverse connection detection	Support
Integration	Mango Power APP
Data Storage	Cloud-dependent (App History)
Insulation resistance	Input and output terminals to casing >100MΩ
Power consumption	<1W,<10VA
General Data	
Dimensions (W / H / D)[mm]	125.6×97.6×28.6
Weight(kg)	0.2
Operating temperature range(°C)	-25°C ~ 55°C (-13 °F ~131 °F)
Storage temperature range(°C)	-40°C ~ 85°C (-40 °F ~185 °F)
Relative humidity	≤95% (without condensation)
Ingress protection rating	IP20
Altitude(m)	≤2000(6562ft)
Powering Method	Hard wired
Mounting Type	Wall-mount/Surface-mount
Warranty	3 Years

