SEM3-M-2 Smart Power Sensor

Quick Guide

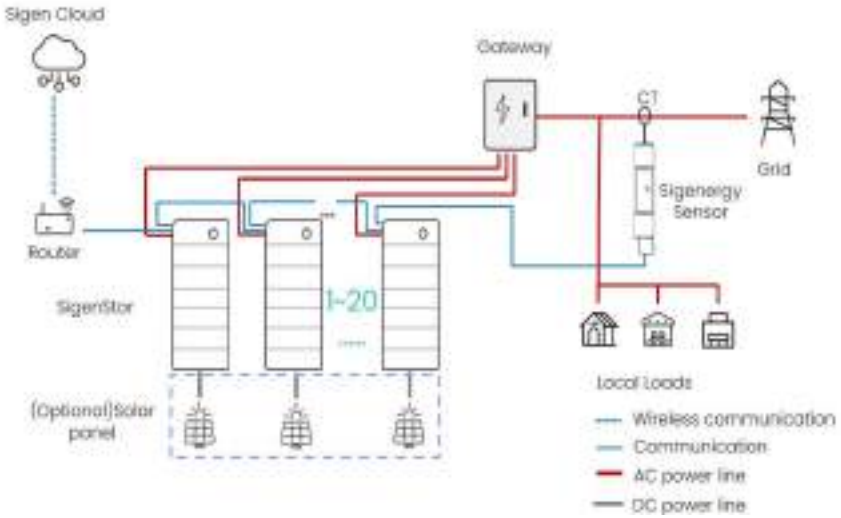


Please scan the QR code to obtain the electronic version of the quick guide and user manual

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Requirement for Power Sensor

System Networking

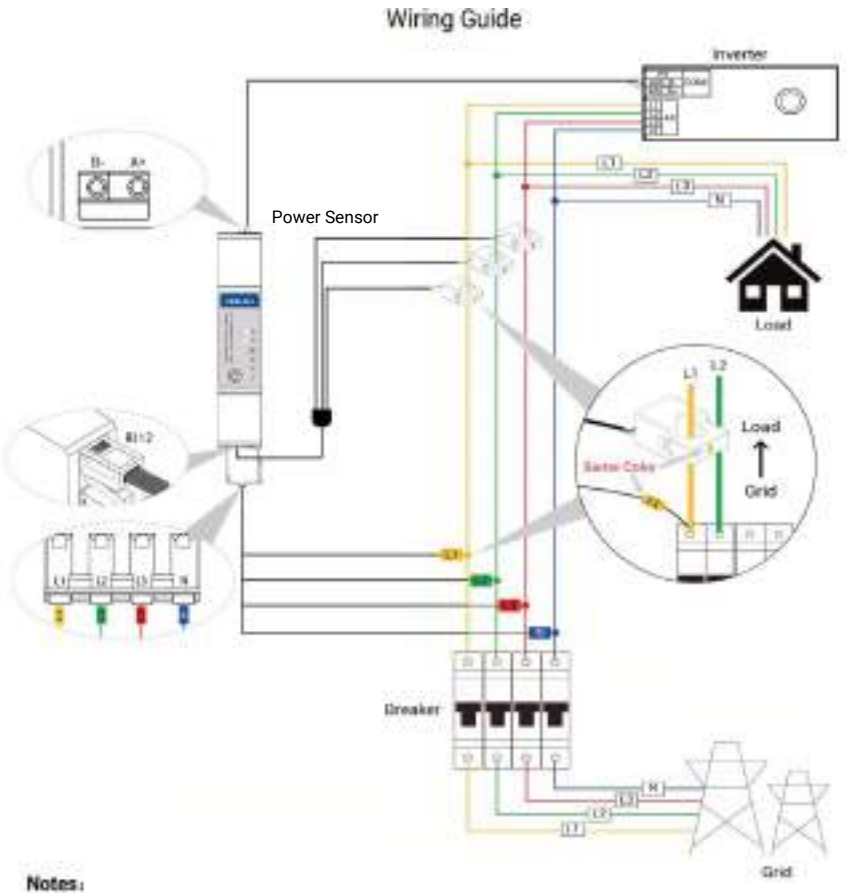


Notes：

1. For the installation location and wiring of the power sensor, please consult our engineer.
2. For voltage sampling, if the grid voltage is ≤277V, you can connect the wires directly;
3. power sensor include CTs, which no separate purchase required. If CTs are purchased separatedly, they must meet the following requirements:

CT	Primary rated current I_n /A	≥Measuring current
	Secondary rated current I_o /mA	40mA
	Accuracy	Class 0.5
	The default CT ratio of the power sensor	120A/40mA or 300A/40mA or 600A/40mA

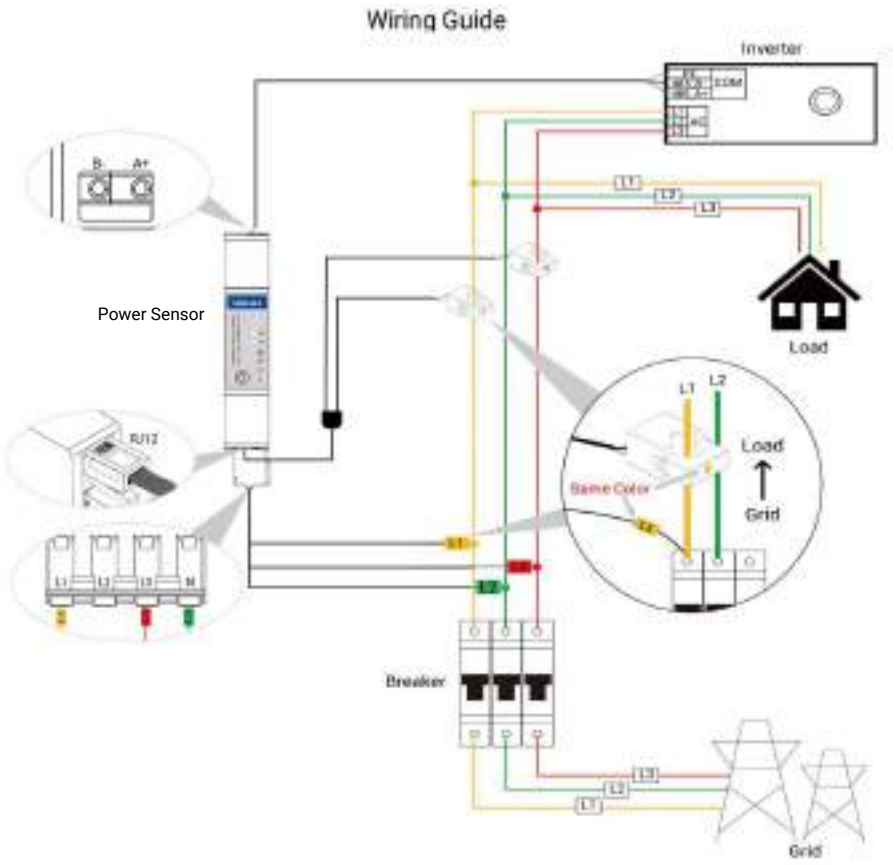
Sampling Voltage ≤ 277Vac
(3P4W)



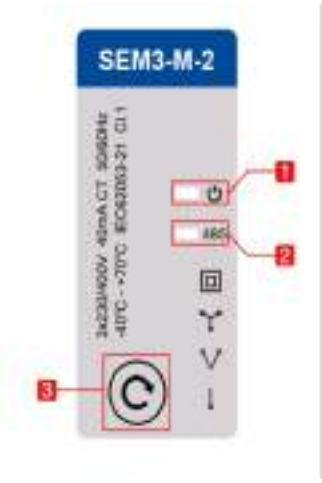
Notes:

1. Sampling voltage ≤ 277Vac (3P4W), please refer to the guide to wire and setup CT ratios.
2. During installation, ensure that the CT and voltage sampling wires on the same phase have matching colors, and verify that the L and N wires are correctly connected.
3. Make sure the direction of the arrow on CT point from grid to load.
4. Power sensor requires circuit breaker for protection, otherwise the voltage sampling wires need to be connected with a fuse in each phase . Recommended fuse specification: ≥measuring voltage/1A

Sampling Voltage ≤ 480Vac
(3P3W)



Definition of button and LEDs

Interface	Definition	Introduction
	1.Power LED (Red)	1.Stay on: Light up when the meter is powered on with no load. 2.Flashing: Blinks when a load is connected.
	2.RS485 LED (Green)	1.Stay on: During the OTA upgrading 2.Flashing: Blinks when the meter is communicating normally.
	3.Key	Press and hold for 10 seconds to reset communication parameters.

Notes：

1. Sampling voltage ≤ 480Vac (3P3W), correct connect the CT.
2. During installation, ensure that the CT and voltage sampling wires on the same phase have matching colors, and verify that the L and N wires are correctly connected.
3. Make sure the direction of the arrow on CT point from grid to load.
4. Power sensor requires circuit breaker for protection, otherwise the voltage sampling wires need to be connected with a fuse in each phase. Recommended fuse specification: ≥measuring voltage/1A
5. Please refer to the "Definition of button and LEDs"
6. If the voltage and current wiring is incorrect, all LED lights will remain constantly on, indicating a phase sequence error alarm. The user can resolve this issue by rewiring or using Sigen's upper computer software to make adjustments.

SEM3-M-2 功率传感器
快速安装指南

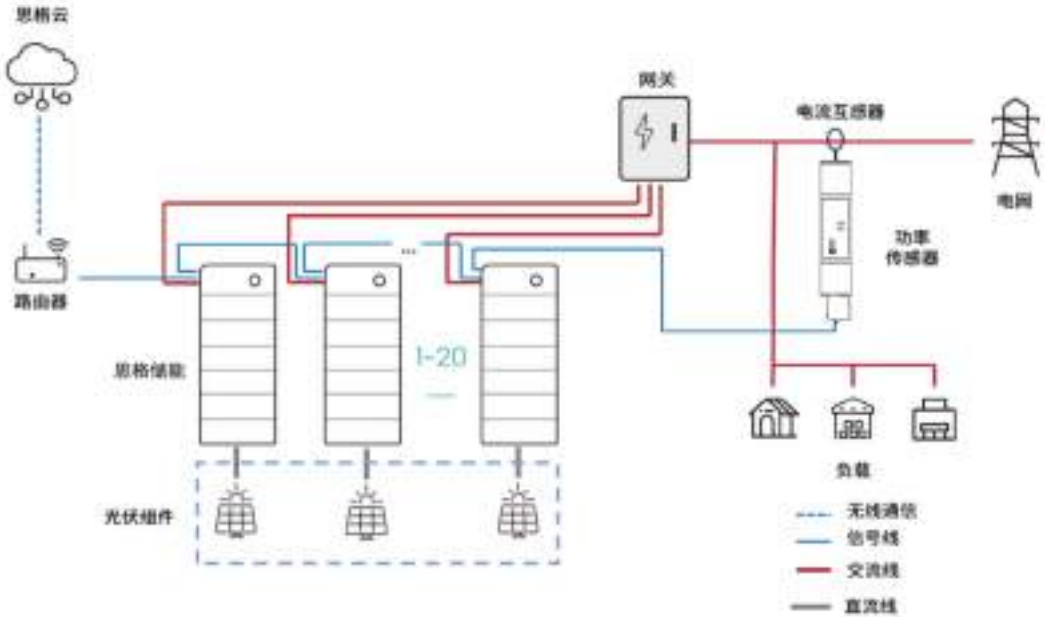


请扫描二维码获取电子版 快速安装指南和使用说明书

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功率传感器要求

系统组网图



注意：

1.功率传感器安装位置和接线，请参考系统组网图和接线指导，或者咨询我司工程师。

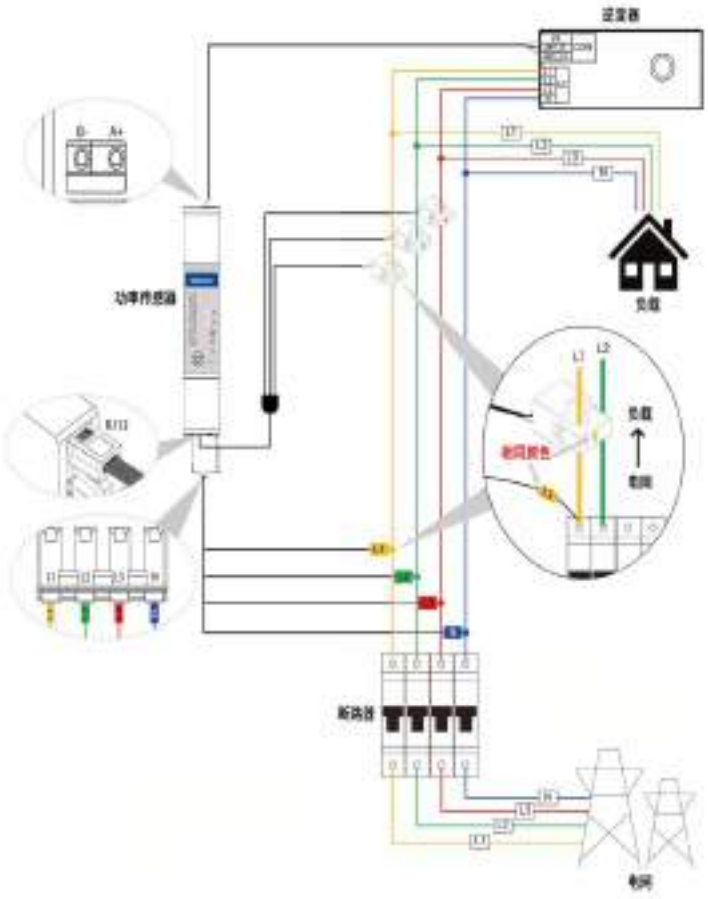
2.电网电压≤277Vac，功率传感器可直接接线进行电压采样；

3.功率传感器配备CT，无需购买。若用户自行采购CT,则必须符合以下要求：

CT	一次侧额定电流 In /A	Measuring current
	二次侧额定电流 Io /mA	40
	采样精度	0.5级
	功率传感器默认CT变比	120A/40mA 或 300A/40mA 或 600A/40mA

三相四线
(3P4W)

接线指导



注意：

1.请参考指导进行接线。

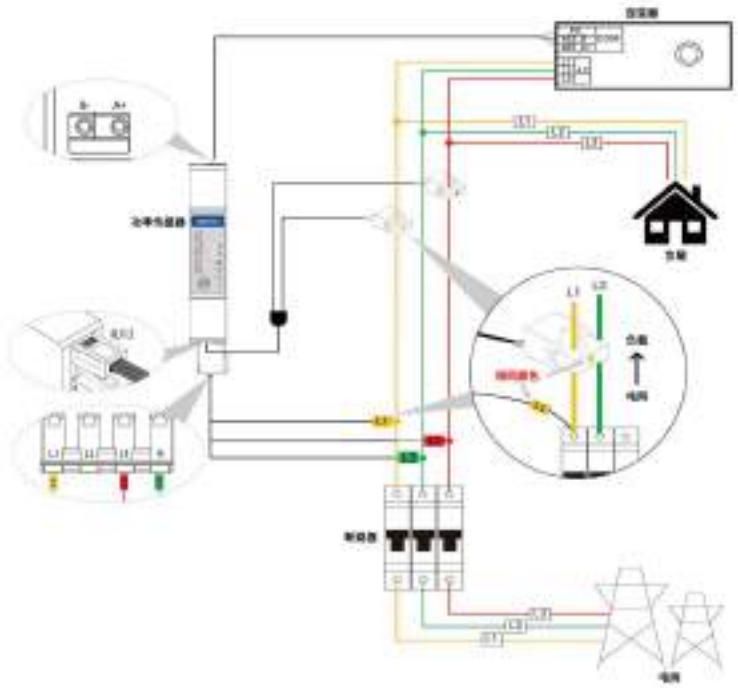
2.安装时需确保同相线上的CT和电压采样线颜色一致，并保证L和N线连接正确。

3.CT安装后请检查箭头方向是否从电网指向负载。

4.功率传感器前端需要安装断路器用于短路保护，否则电压采样线,前端需要串接熔丝进行保护，
熔丝推荐规格：≥额定一次侧电压/1A

三相三线
(3P3W)

接线指导



注意：

1.请参考指导进行接线。

2.如果用于三相三线电网，请按照下面步骤安装：

将电表L1（黄色标签）和L3（红色标签）相的CT和电压采样线分别接到电网其中两根相线上，将剩余N相（蓝色标签）电压采样线接到电网第三根相线上，确保同一根相线上CT和电压采样线颜色一致，并保证L和N线接线正确。

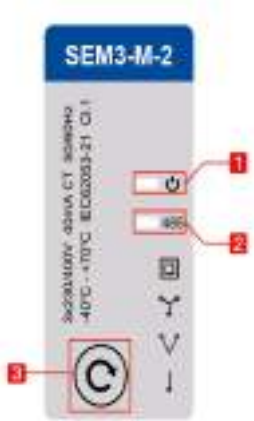
3.CT安装后请检查箭头方向是否从电网指向负载。

4.功率传感器前端需要安装断路器用于短路保护，否则电压采样线需要串接熔丝进行保护，熔丝推荐规格：额定一次侧电压/1A。

5.请参考“ 按键与LED定义 ”。

6.当电压与电流的接线错误，所有LED灯保持常亮，表示相序错误告警。用户可通过重新接线或Sigen的上位机软件修改来消除报警。

按键与LED定义

界面	定义	描述
	1.电源指示灯 (红色)	1.常亮：电表在无负载状态下通电时点亮。 2.闪烁：接入负载时指示灯持续闪烁。
	2.RS485 通讯指示灯 (绿色)	1.常亮：表示设备正在进行在线升级。 2.闪烁：电表正常通信时指示灯持续闪烁。
	3.按键	长按10秒重置通信参数