

GoodWe HomeKit

GoodWe HomeKit is a solution designed to monitor load energy consumption in real time, 24 hours a day. Based on the best principles, the HomeKit is tailored for homeowners' needs and only requires an internet connection. It consists of a smart meter and a Wi-Fi/LAN communication module. An additional advantage of GoodWe HomeKit is that it can be applied to grid-connected systems with inverters of any brand or even systems without PV and it is a key component in keeping load consumption records. With a 60-second update frequency, data is transmitted by Wi-Fi/LAN and stored on the cloud. End users benefit from a better understanding of their electricity consumption and the source from which it is generated. Moreover, if used together with a GoodWe inverter, HomeKit can limit the power exported to the grid.



24-7 Real-time Consumption Monitoring



CTs included



Work with Inverters of Any Brand



Export Power Control

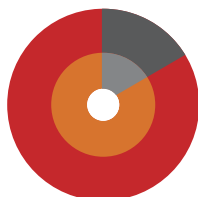


24-Hour Real-time Consumption Monitoring

HomeKit offers 24-hour real-time consumption control. With the assistance of the GoodWe monitoring platform SEMS, HomeKit can calculate self-consumption levels per day, month or year, providing a comprehensive overview of load consumption and the general efficiency achieved in the use of solar energy. Furthermore, the power consumption of the HomeKit itself is insignificant, saving on additional electricity costs.

PV Generation: 15.1kWh

Loads Consumption: 38.7kWh



■ Use of PV for self-consumption (83.4%)
■ Energy exported to the grid (16.6%)

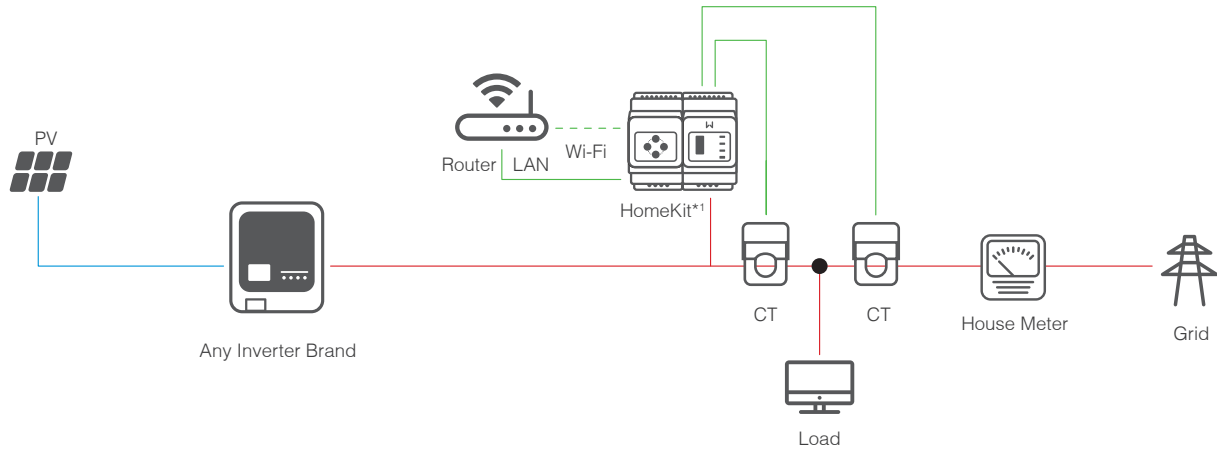


■ Use of PV for self-consumption (32.6%)
■ Energy imported from the grid (67.4%)



Double CT Design - Super Accurate Measurement

GoodWe HomeKit is designed to connect with two CTs (Current Transformer), which can measure the inverter side and the grid side at the same time. to ensure maximum accuracy with less than 1% error rate.



| Model | | HK1000 | |
|--------------------------------|------------------------------------|---------------------------------|--------------|
| Input | Grid | Single-phase | |
| | Voltage | Nominal Voltage-Line to N (Vac) | 230 |
| | | Voltage Range | 0.88Un-1.1Un |
| | | Nominal AC Grid Frequency (Hz) | 50 / 60 |
| | Current | Current Transformer Ratio | 120A:40mA |
| Number of Current Transformers | | 2 | |
| Communication | | RS485 or WLAN | |
| Communication Distance (m) | | RS485:1000, LAN:100, WiFi:10 | |
| Wireless Parameter | Supported Standards & Frequencies | 802.11b / g / n (2.412G-2.472G) | |
| User interface | | 3 LED, Reset button | |
| Accuracy | Voltage / Current | Class 1 | |
| | Active Energy | Class 1 | |
| | Reactive Energy | Class 2 | |
| Power Consumption (W) | | <3 | |
| Mechanical | Dimensions (W x H x D mm) | 72 x 85 x 66.5 | |
| | Housing | 4 modules | |
| | Weight (g) | 320 | |
| | Mounting | Din rail | |
| Environment | Ingress Protection Rating | IP20 | |
| | Operating Temperature Range (°C) | -25 ~ +60 | |
| | Storage Temperature Range (°C) | -30 ~ +70 | |
| | Relative Humidity (non-condensing) | 0 ~ 95% | |
| | Max. Operating Altitude (m) | 2000 | |

*: Please visit GoodWe website for the latest certificates.