GOODWE

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 gid.

24-7 Real-time Consumption Monitoring

Double CT Design - Super Accurate Measurement

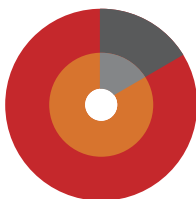**Work with Inverters of Any Brand**

Export Power Control
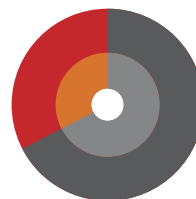
24-Hour Real-time Consumption Monitoring

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 effciency 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

■ Use of PV for self-consumption (83.4%)
■ Energy exported to the grid (16.6%)
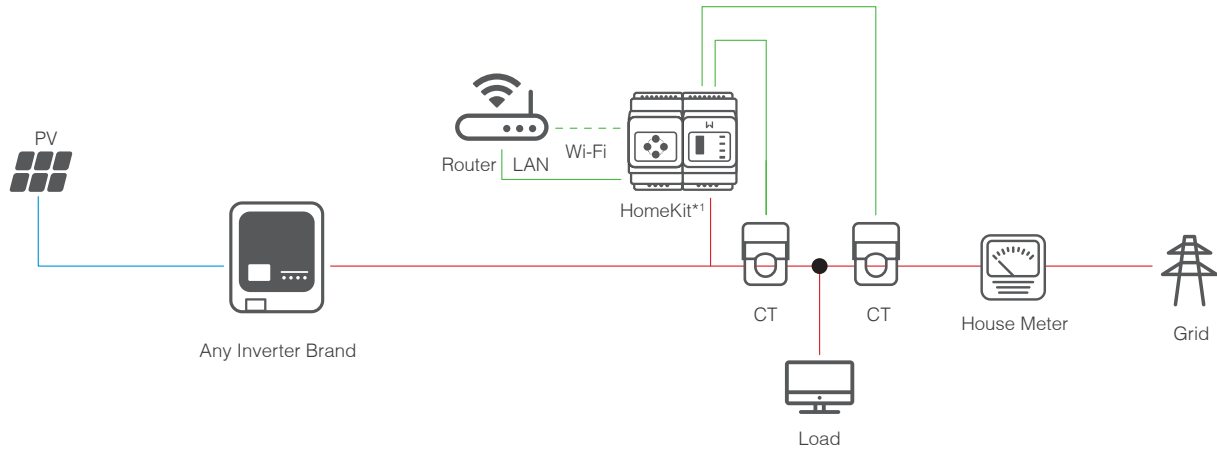
Loads Consumption: 38.7kWh

■ 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
Machanical	Dimensions (W × H × D mm)		72 × 85 × 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.