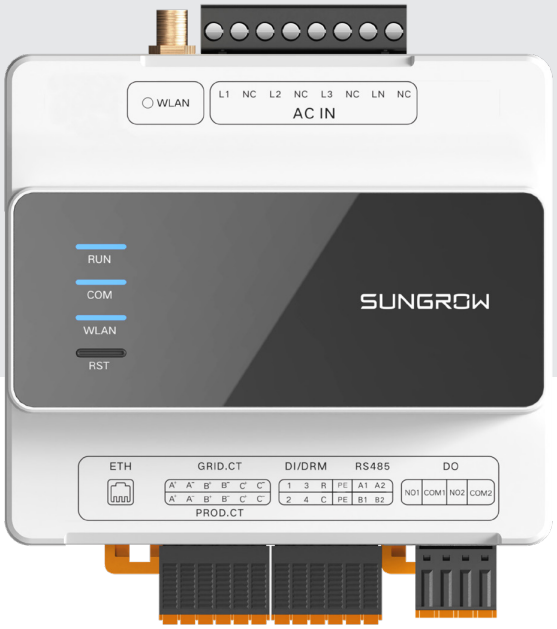
SUNGROW
Clean power for all

iHomeManager

iHomeManager is an intelligent home energy management device. Based on PV yield predictions, load analysis and local tariffs, it helps to maximize the use of green energy, improve self-consumption rate, and offer auto power backup against extreme weather.

NEW



FLEXIBLE NETWORKING

- Supports RS485, Ethernet, WLAN communication
- Supports EV charger, battery and multiple inverters

CONVENIENT INSTALLATION

- Supports both wired and wireless networking with convenience
- Built-in meter removes the need to buy and wire an extra meter

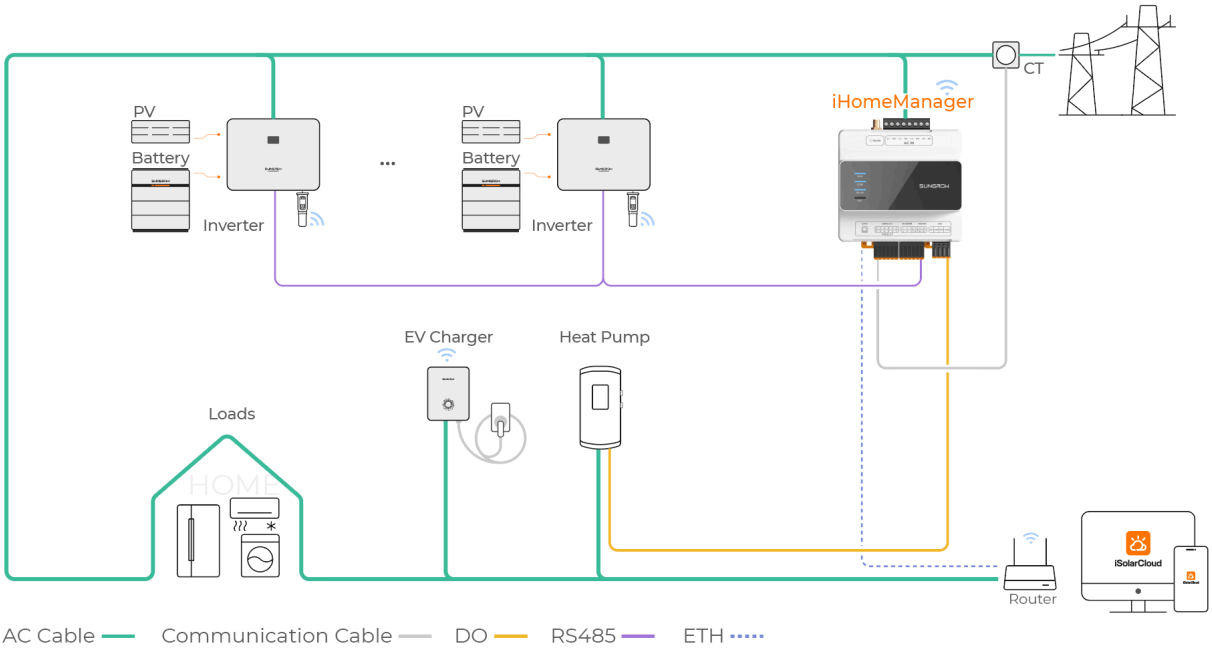
EASY TO USE

- Intelligent AI mode-increase power usage with lower cost
- Smart prediction and pre-charging against blackouts
- Intelligent load profile based on real-time yield tracking

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CIRCUIT DIAGRAM



* The iHomeManager supports both wired and wireless communication with the inverter. The above figure shows the wired solution

Technical parameters	iHomeManager
Basic data	
Supported device number	Max. 7（System rated power ≤ 50 kW, meet the rated power requirements, the number of inverters ≤ 5, EV charger: 1, heat pump: 1）
Communication	
RS485	2 channels, separated
Ethernet	1 channel, 10/100 Mbps adaption, communication distance ≤ 100 m
Digital input	5 channels（4 channels for dry contact input, 1 channel for RC short circuit emergency stop）
Digital output	2 channels, dry contact output
External CT interface	2
Accuracy of built-in meter	Level 1（error ≤ 1 %）
Sampling period	50 ms
WLAN	802.11 b/g/n/ax, 2.4 GHz
Antenna	Supports built-in and external
Power supply	
AC input	3P3W：415Vac（L-L） 3P4W：415 Vac（L-L）, 230 Vac（L-N）
Power consumption	≤ 9 W
Ambient conditions	
Operating temperature	-30 °C - 60 °C
Allowable relative humidity range	0 % - 95 %, non-condensing
Max. operating altitude	4000 m
Protection class	IP20
Mechanical parameters	
Dimensions（W*H*D）	108 mm * 97 mm * 65 mm
Weight	< 800 g
Installation	DIN Rail / Wall mounting
Standard compliance	
Certification	CE

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