

# 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

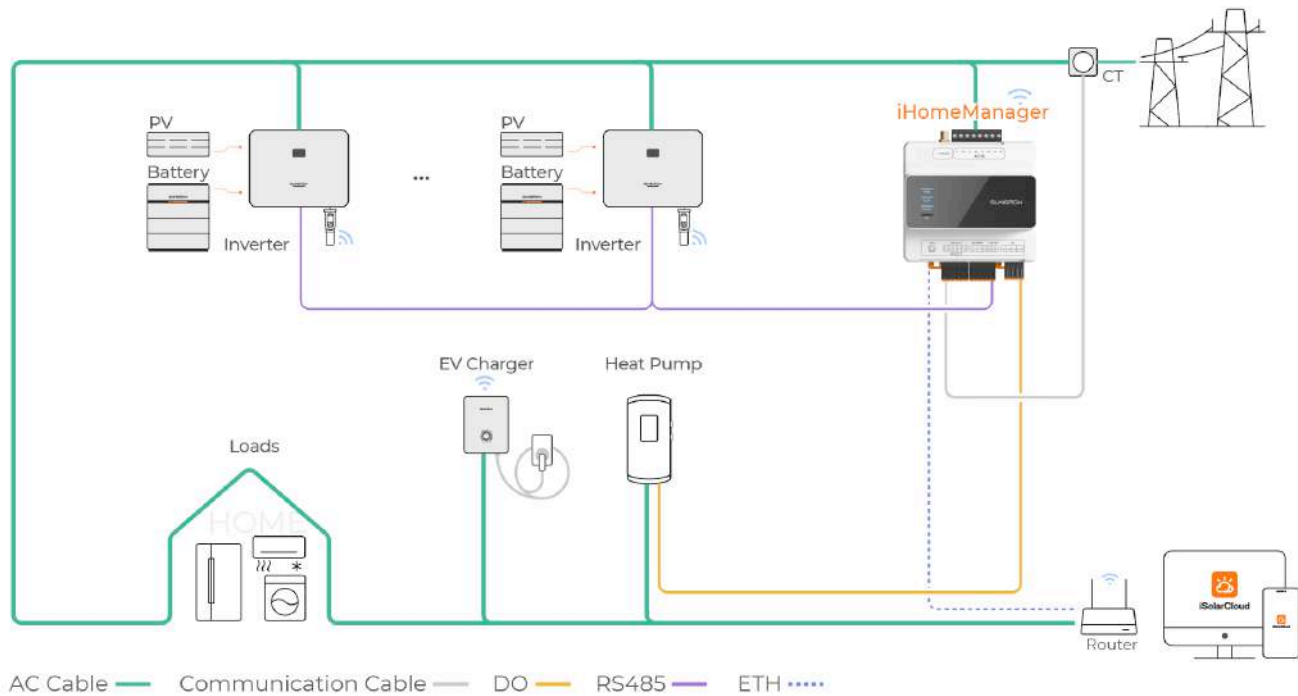
## CONVENIENT INSTALLATION

- 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

## CIRCUIT DIAGRAM



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

Technical parameters	iHomeManager
<b>Basic data</b>	
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 )
<b>Communication</b>	
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
<b>Power supply</b>	
AC input	3P3W: 415Vac ( L-L ) 3P4W: 415 Vac ( L-L ) , 230 Vac ( L-N )
Power consumption	≤ 9 W
<b>Ambient conditions</b>	
Operating temperature	-30 °C - 60 °C
Allowable relative humidity range	0% - 95%, non-condensing
Max. operating altitude	4000 m
Protection class	IP20
<b>Mechanical parameters</b>	
Dimensions ( W*H*D )	108 mm * 97 mm * 65 mm
Weight	< 800 g
Installation	DIN Rail / Wall mounting
<b>Standard compliance</b>	
Certification	CE