

# iGarden

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## Plug-and-Play Setup

Easy for DIY installation.

## Smart AI-Optimized Self-Consumption

AI intelligently analyzes solar generation, household load and battery status in real time to maximize self-consumption and reduce grid dependence automatically.

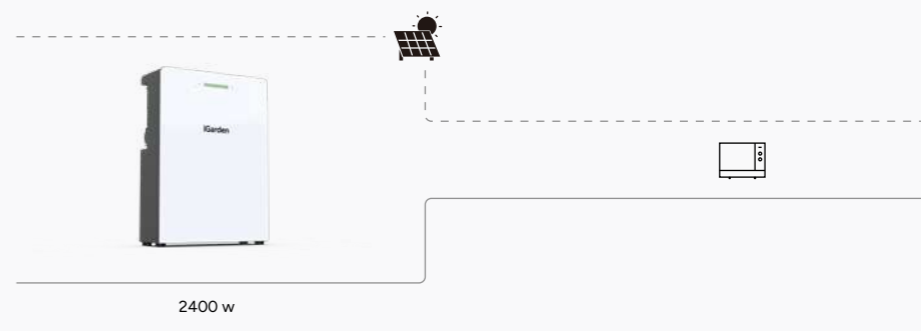




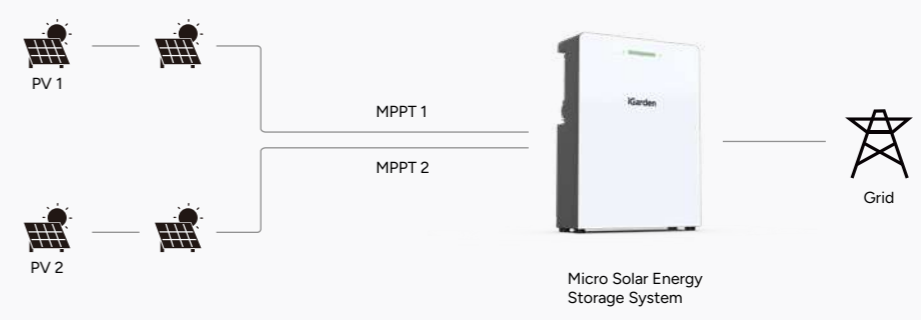
## Support AC-Coupled and Backup Power Capability

AC-coupled design enables seamless integration with existing PV systems and provides reliable backup power during grid outages, keeping essential devices running.

## 2400 W Max On-Grid Input & Output



## Dual MPPT, up to 2000 W PV input



## Expandable to 20.48 kWh with up to 4 units in parallel





Up to **2400 W** of reliable backup power



IP65 protection and **-20°C** performance



**6000 Cycles** Ultra-Long Lifespan

## Micro Solar Energy Storage System

Model	
<b>Battery Info</b>	
Rated voltage (V)	51.2
Rated capacity (Wh)	5120
Battery type	LiFePO <sub>4</sub>
Depth of Discharge	90%
Heating Film	Support
Life Cycle	>6000 Times (25°C)
<b>PV Input</b>	
Operating voltage range (Vdc)	10-100
Maximum input voltage (Vdc)	100
Independent MPPT Inputs / Inputs per MPPT	2/1
Maximum input current (A)	16*2
Maximum input power (W)	1000*2
<b>AC Input</b>	
Grid Connection Type	L/N/PE
Rated Input Power (W)	2400
Grid Voltage Range (V)	184-253
Rated AC Frequency (Hz)	50
Rated Grid Current (A)	10.44
Power Factor	>0.9
THDi	<3%
<b>AC Output (On Grid)</b>	
Grid Connection Type	L/N/PE
Rated On Grid Output Power	800 W by Default/Up to 2400 W with Professional Installation
Rated Voltage (V)	230
Grid Voltage Range (V)	184-253
Rated AC frequency (Hz)	50
Rated Grid Current (A)	3.48 (Default)/Up to 10.44 with Professional Installation
Power Factor	>0.9
THDi	<3%
<b>AC Output (Off Grid)</b>	
GRated Off Grid Output Power (W)	2400
Max.Output Power (W, s)	3600/10
Rated Output Current (A)	10.44
Rated Output Voltage (V)	230
Rated AC frequency (Hz)	50
<b>General</b>	
Dimension (L*W*H, mm)	520*181*715
Weight (KG)	59±2
Grid Connection	Single-phase plug
Protection level	IP65
Allowed Operating Ambient Temperature (°C)	-20 ~+ 60
Relative humidity	5 to 95@No condensation
Altitude	<2000
On-grid Connection Standard	VDE-4105, EN50549-1
Regulatory	IEC62109, IEC62477
EMC	IEC/EN 61000
Communication interface	WIFI, Bluetooth, RS485

\*Premium: Enabling this function must comply with local regulations and should only be performed by authorized personnel!

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