SUNMASTER

SOLAR MICRO-INVERTER SOLUTION



More
+Power
Less Expense

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On the way

Redefining the future concept of energy

SunMaster focus on research and manufacture of solar micro inverter since 2006. Our grid-connected micro inverters leverage modern-day communication technology to maximize the effectiveness of solar panels throughout changing weather and complex environmental conditions.

17 +
Years history

50 +
Global Partners

ISO9001
Authoritative certification

35 000+ m²
Workshop

140 +
Destination Countries

Quality
Raw materials

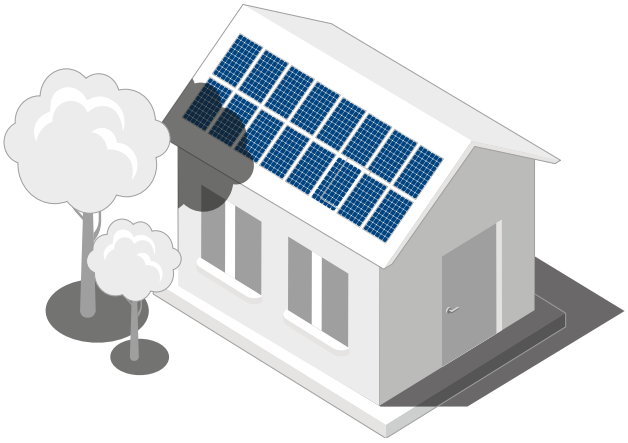
Strong
R&D Team

100 000 +
Micro Inverter Produce Monthly

Applications

Highest ROI with SunMaster Micro-Inverter

Solve only the problem that interests you, optimize when and where needed



System optimization with partial shading

This SunMaster MICRO inverter's unique individual panel output control can reduce shading and mismatching effect

Hassle-Free Solar

When you're ready to go solar, SunMaster micro inverters optimize commercial solar PV projects by delivering increased energy harvest, while offering maximum flexibility in deployment.

Less Work

Automatically receive the best solar offers from our network of providers.

More Savings

Solar providers compete to earn your project, saving you as much as 20%.

100% Online

Sit back, relax, and go solar. Your project is organized remotely.

let's explore the solar with SunMaster

Case Scenario



SunMaster Micro-Inverter

▶ 600W Solar Solution In Germany

600W Micro Inverter
with 2PV modules (300W)

The Maximum Power Point Tracking (MPPT) algorithm maximizes energy and flexibility.

Production Calculation

Germany Daily Solar Radiation: 3.55 kWh/m2/d
Yield Daily: 3.55 x 600w x 0.95= 2.02 KWH

95%
Efficiency

2.02KWH
Daily Yield



1-In-1

SMMI-300W/SMMI-350W

Micro Inverter

Safety

- No DC high voltage. Our micro inverters immediately convert DC to AC creating a safer installation.
- Enhanced safety insulations
- With Reactive Power Control, Compliant with VDE4105,VDE0126,CEI-021,EN50549,IEC61000

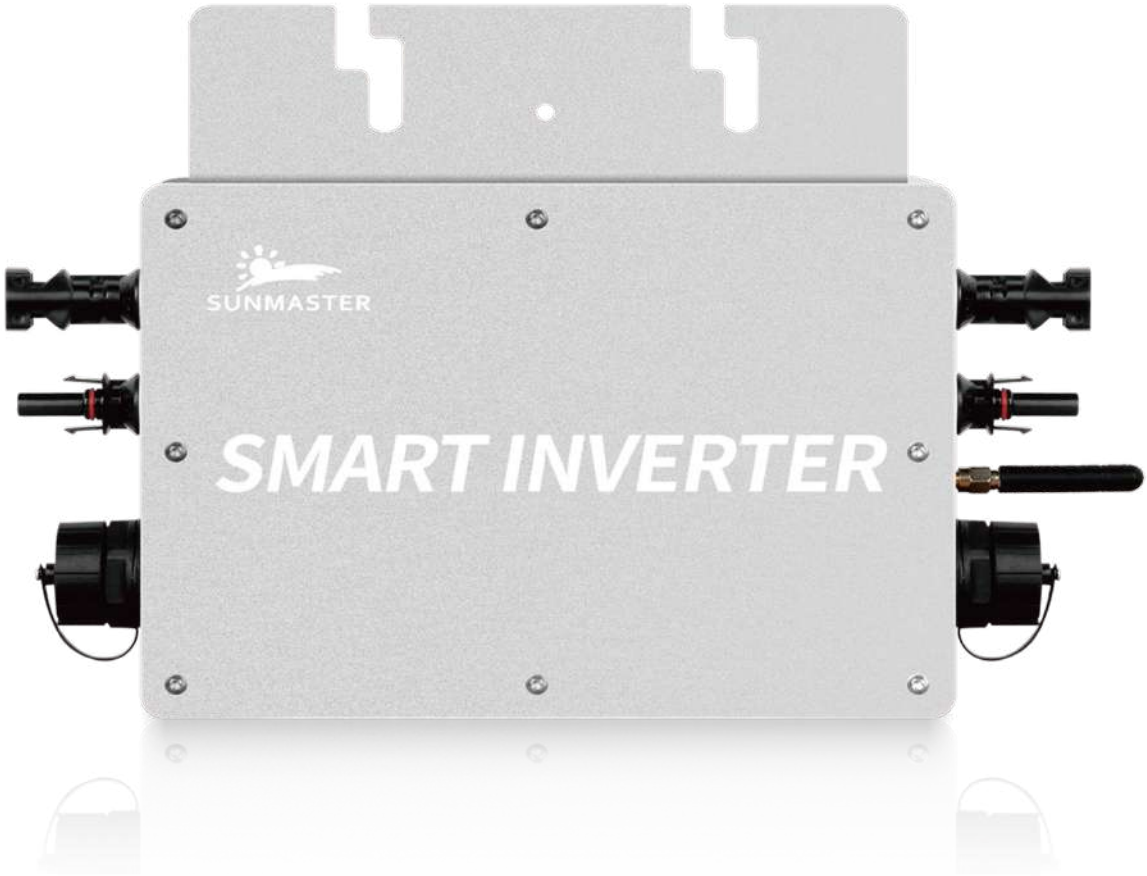
Efficiency

- Harvest 15-25% more energy.Shading and complicated roofs are ideal for our micro inverters.
- Flexibility to adjust the size of the system
- Peak efficiency 96.2%
- CEC efficiency 96.0%

Technical Specifications

Model	SMMI-300W	SMMI-350W
Input Data (DC)		
Commonly used module power (W)	<375	<435
Maximum input voltage (V)	60	
MPPT voltage range (V)	22-60	
Start-up voltage (V)	22	
Maximum input current (A)	13.7	16
Maximum input short circuit current (A)	15	18
Number of MPPTs	1	
Number of Inputs per MPPT	1	
Output Data (AC)		
Rated output current (A)	2.5/1.3	3/1.5
Nominal output voltage/range (V)[1]	120/230	120/230
Nominal frequency/range (Hz)[1]	47-52/57-62	
Power factor (adjustable)	99%	
Total harmonic distortion	< 5 %	
Efficiency		
CEC peak efficiency	95%	
Nominal MPPT efficiency	99.5%	
Night power consumption (mW)	< 50	
Mechanical Data		
Ambient temperature range (℃)	-40 to +65	
Dimensions (W × H × D mm)	165x176x38	
Weight (kg)	0.8	
Enclosure rating	IP65	
Cooling	Natural cooling	
Features		
Communication	WiFi/Power Line	
Compatibility	Compatible with 60~72 cell PV module	
Monitoring	Mobile phone APP	
Compliance	VDE4105, VDE0126,CEI-021, EN50549, IEC62109, IEC61000	

* Nominal voltage/frequency range can vary depending on local requirements.



2-In-1

SMMI-600W/SMMI-700W/SMMI-800W

Micro Inverter

International certificates

Globally comply to VDE4105, VDE0126, CEI-201, EN50549, IEC62109, IEC61000, High efficiency with 95.5% CEC.

Simple and practical design

Dimensions: 283x200x41.6mm, Welght-1.44kgs. oporating Temperature :-40 to +65 Cooling Natural convection.

Simple installation

Integrated grounding for easy installation Integrated monitoring and power line communication with gateway.

Technical Specifications

Model	SMMI-600W	SMMI-700W	SMMI-800W
Input Data (DC)			
Commonly used module power (W)	<2x375	<2x435	<2x465
Maximum input voltage (V)		60	
MPPT voltage range (V)		22-60	
Start-up voltage (V)		22	
Maximum input current (A)	23	28	32
Maximum input short circuit current (A)	30	32	36
Number of MPPTs		2	
Number of Inputs per MPPT		1	
Output Data (AC)			
Rated output current (A)	5/2.6	5.9/3.1	6.7/3.5
Nominal output voltage/range (V)[1]		120/230	
Nominal frequency/range (Hz)[1]		47-52/57-62	
Power factor (adjustable)		99%	
Total harmonic distortion		< 5 %	
Efficiency			
CEC peak efficiency		95%	
Nominal MPPT efficiency		99.5%	
Night power consumption (mW)		< 50	
Mechanical Data			
Ambient temperature range (℃)		-40 to 65	
Dimensions (W × H × D mm)		283x200x41.6	
Weight (kg)		1.44	
Enclosure rating		IP65	
Cooling		Natural cooling	
Features			
Communication		WiFi/Power Line	
Compatibility		Compatible with 60~72 cell PV module	
Monitoring		Mobile phone APP	
Compliance		VDE4105, VDE0126,CEI-021, EN50549, IEC62109, IEC61000	

*Nominal voltage/frequency range can vary depending on local requirements.



4-In-1

SMMI-1200W/SMMI-1400W

Micro Inverter

Better Prodction

Micro inverters can produce up to 30% more power than other inverter technologies. One shaded or dirty panel will not affect the rest of the panels in the array, so each panel performs to its maximum capacity

Reliability

Unlike string inverters, micro inverters are able to function independently and more reliably with no single point of failure. If one panel goes down, it doesn't affect the others.

Safer

Micro inverters are safer than other string inverter. it is without the high-voltage

Technical Specifications

Model	SMMI-1200W	SMMI-1400W
Input Data (DC)		
Commonly used module power (W)	<4x375	<4x435
Maximum input voltage (V)	60	
MPPT voltage range (V)	22-60	
Start-up voltage (V)	22	
Maximum input current (A)	48	56
Maximum input short circuit current (A)	55	65
Number of MPPTs	4	
Number of Inputs per MPPT	2	
Output Data (AC)		
Rated output current (A)	10/5.22	11.6/6
Nominal output voltage/range (V)	120/230	120/230
Nominal frequency/range (Hz)	47-52/57-62	
Power factor (adjustable)	99%	
Total harmonic distortion	< 5 %	
Efficiency		
CEC peak efficiency	95%	
Nominal MPPT efficiency	99.5%	
Night power consumption (mW)	< 50	
Mechanical Data		
Ambient temperature range (℃)	-40 to 65	
Dimensions (W × H × D mm)	370x300x41.6	
Weight (kg)	3.0	
Enclosure rating	IP65	
Cooling	Natural cooling	
Features		
Communication	WiFi/Power Line	
Compatibility	Compatible with 60~72 cell PV module	
Monitoring	Mobile phone APP	
Compliance	VDE4105, VDE0126,CEI-021, EN50549, IEC62109, IEC61000	

*Nominal voltage/frequency range can vary depending on local requirements.



4-In-1

SMMI-2000W/SMMI-2400W/SMMI-2800W

Micro Inverter

A bright idea, even in low light

The Micro inverters use breakthrough Burst Mode TM technology to capture more energy in low-light conditions, such as when there are shadows or clouds passing over the solar panel.

Rapid Islands Protection

The Micro inverter can shut down AC output rapidly once AC plug not well connected.

Technical Specifications

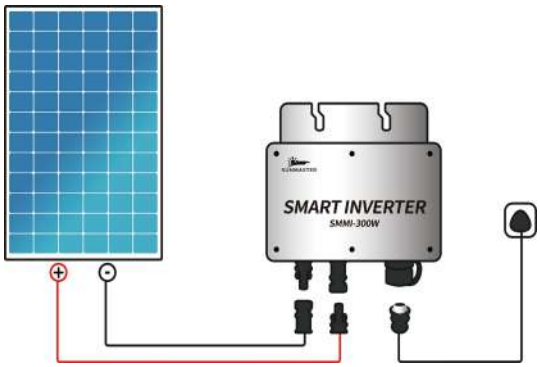
Model	SMMI-2000W	SMMI-2400W	SMMI-2800W
Input Data (DC)			
Commonly used module power (W)	<6x415	<6x500	<6x585
Maximum input voltage (V)		60	
MPPT voltage range (V)		22-60	
Start-up voltage (V)		22	
Maximum input current (A)	92	108	126
Maximum input short circuit current (A)	105	124	144
Number of MPPTs		6	
Number of Inputs per MPPT		3	
Output Data (AC)			
Rated output current (A)	18.4/9.2	21.8/10.9	25/12.5
Nominal output voltage/range (V)[1]		120/230	
Nominal frequency/range (Hz)[1]		47-52/57-62	
Power factor (adjustable)		99%	
Total harmonic distortion		< 5 %	
Efficiency			
CEC peak efficiency		95%	
Nominal MPPT efficiency		99.5%	
Night power consumption (mW)		< 50	
Mechanical Data			
Ambient temperature range (℃)		-40 to 65	
Dimensions (W × H × D mm)		370x300x41.6	
Weight (kg)		3.3	
Enclosure rating		IP65	
Cooling		Natural cooling	
Features			
Communication		WiFi/Power Line	
Compatibility		Compatible with 60~72 cell PV module	
Monitoring		Mobile phone APP	
Compliance		VDE4105, VDE0126,CEI-021, EN50549, IEC62109, IEC61000	

*Nominal voltage/frequency range can vary depending on local requirements.

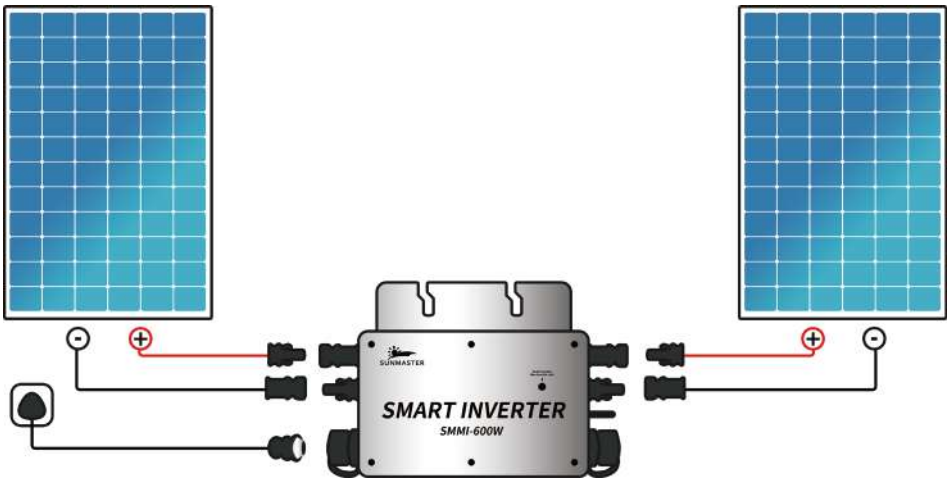
1-IN-1 Series

Micro-Inverter with 300W-400W PV MODULE

SunMaster 1-in-1 micro inverter is one of the most flexible solar solutions, which can be connected to one PV module and used in various strings.



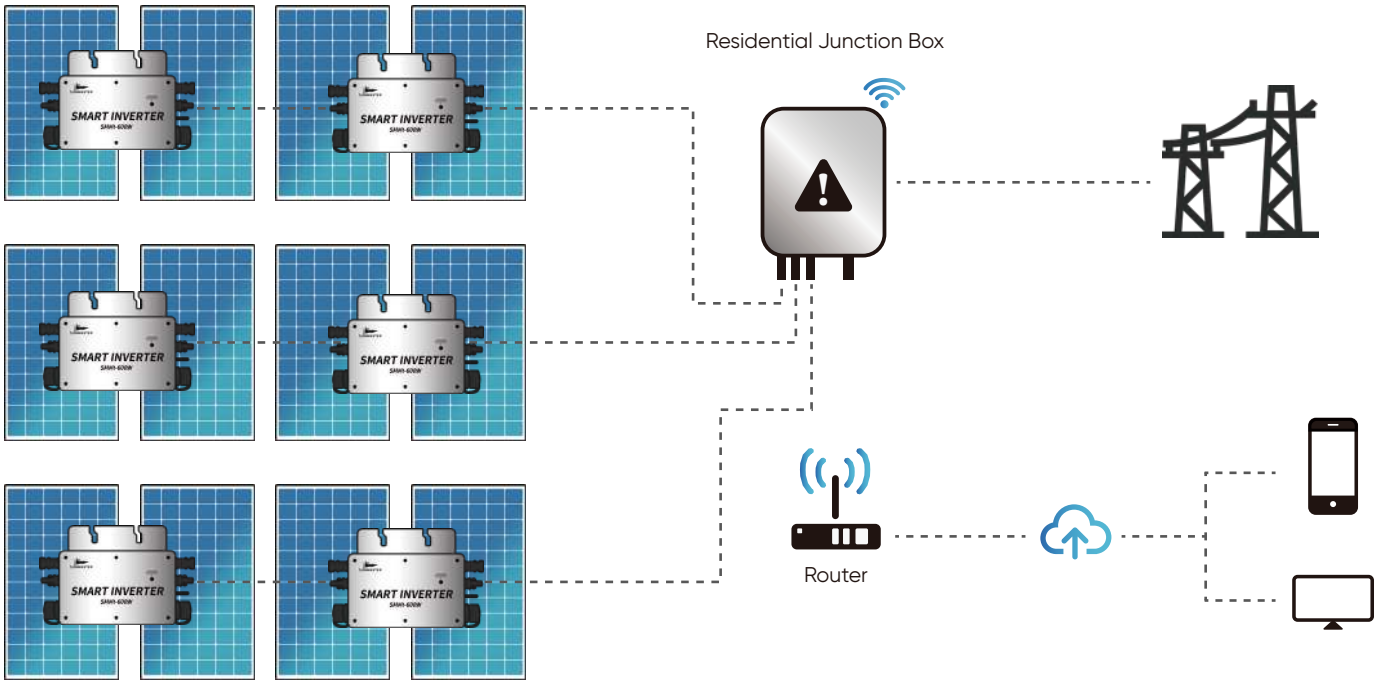
Model	SMMI-300W	SMMI-350W	SMMI-600W	SMMI-700W	SMMI-800W
System Power	300W	350W	600W	700W	800W
Micro-inverter	300W*1Pcs	350W*1Pcs	600W*1Pcs	700W*1Pcs	800W*1Pcs
Solar Panel	375W*1Pcs	435W*1Pcs	375W*2Pcs	435W*2Pcs	465W*2Pcs
Data Transfer Units	WiFi	WiFi	WiFi	WiFi	WiFi
Mounting Bracket	Tile Roof,Tin Roof,Flat Roof,Ground,Pole Mounting Structure,Carport (Customized Optional)				
Accessories	AC Cable Lengths,EN-AC Plug,MC4 Cable (Customizable,All other accessories can be configured)				
Tools Bag	Wire Cable Cutter & Stripper, Crimping Pliers for PV Connectors (Optional)				



2-IN-1 SERIES

The 2-IN-1 Series designed to generate more energy at a low cost and with an efficiency of 95%. It has an integrated monitor and power line communication. It can be connected to the 2 PV Module . This micro inverter is globally certified.

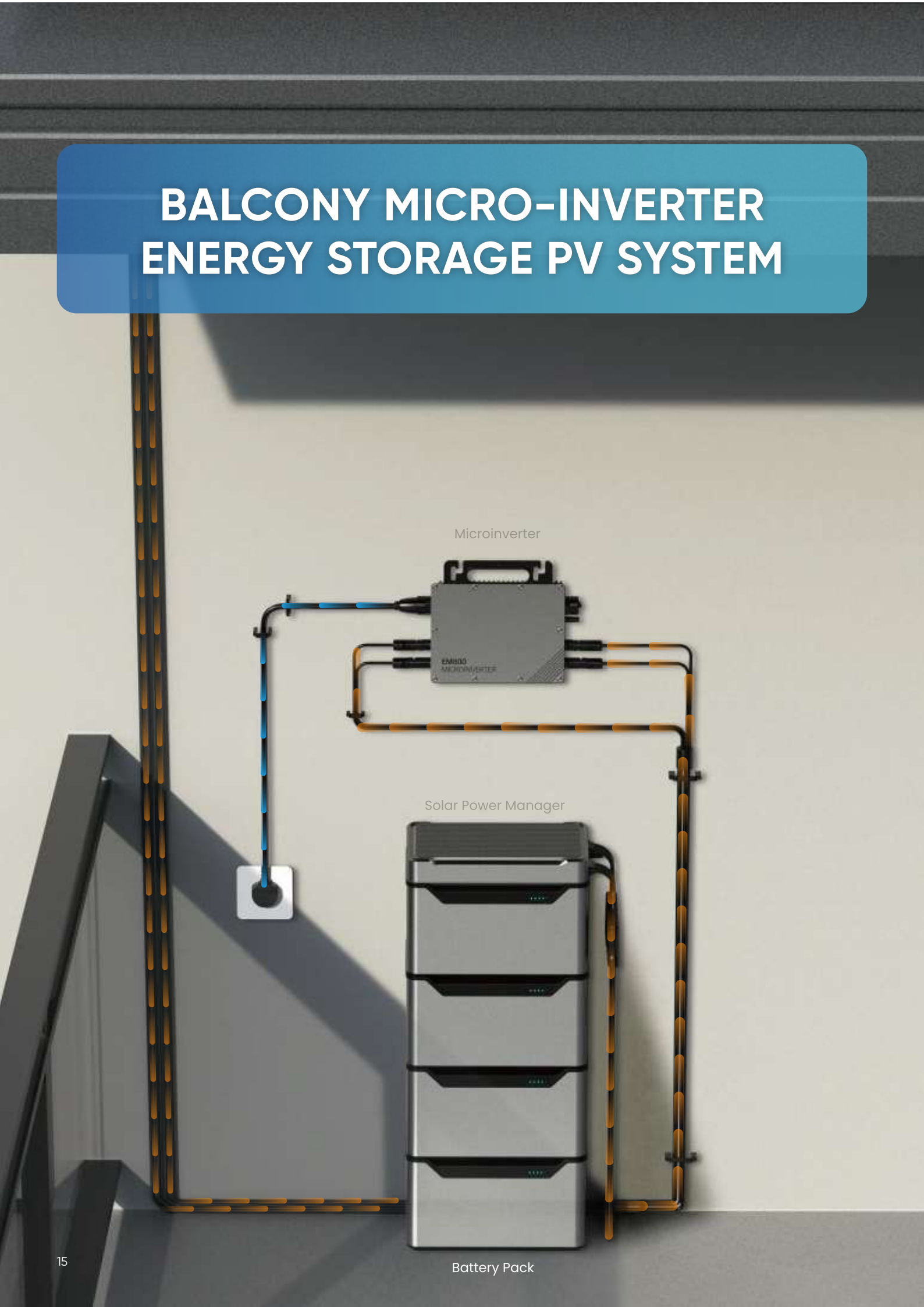
SOLAR PLANT SOLUTION



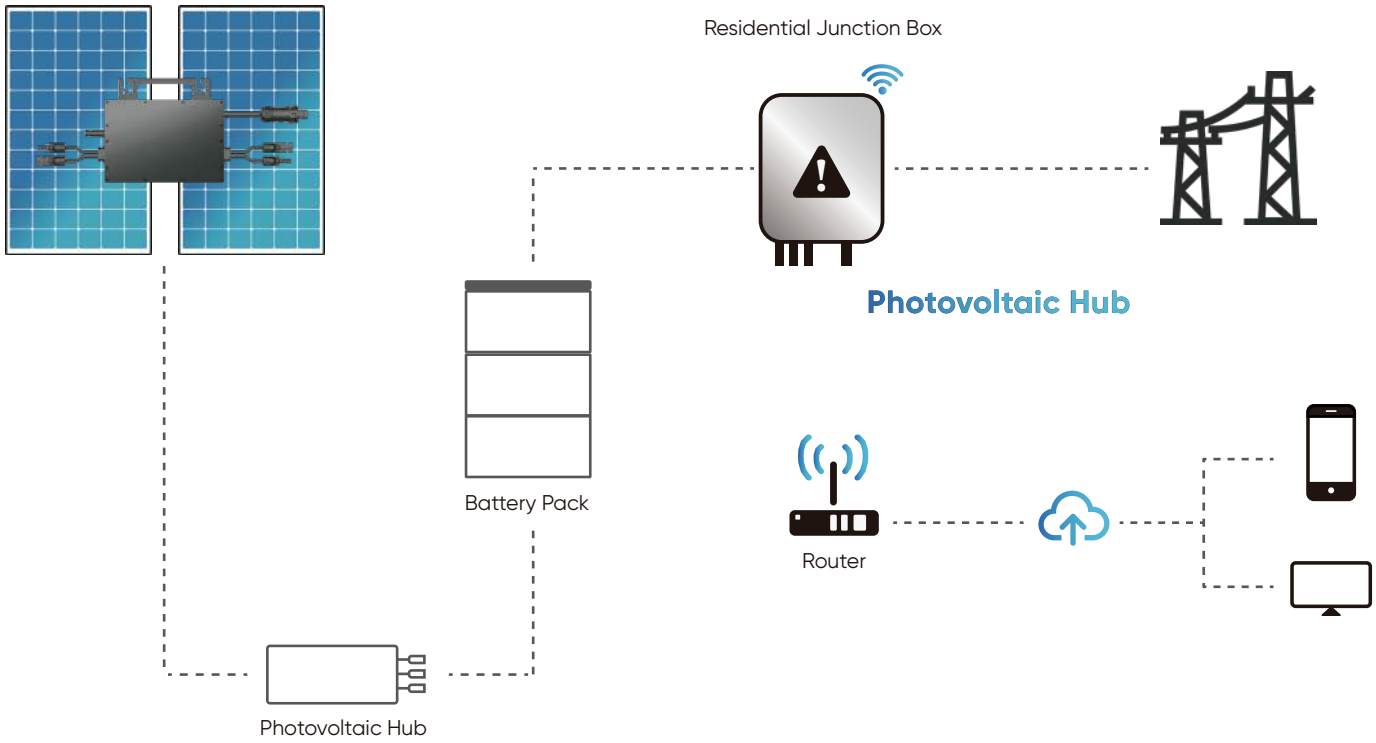
Empowered by SunMaster micro inverters, SunMaster Solar offers micro inverter solutions for 208V, 240V, and 277V single phase or three phase grid systems.

- Monitoring device: Link gateway.
- Gateway is installed in the junction box. It connects with router via WiFi, ethernet cable or GPRS devices.
- Commercial junction box includes gateway, PLC filters, coupler, breakers and SPD.
- Monitoring the system performance on mobile phone APP.

BALCONY MICRO-INVERTER ENERGY STORAGE PV SYSTEM



Solar Plant Solution



The first-generation balcony solar system, used together with microinverters. It can directly supplies power to households through solar energy, and storing excess power in the battery pack, which provides continuous electricity when needed.



Solar Panel

The solar panel is installed on the balcony or roof, capturing sunlight and converting it into direct current (DC).



Micro - Inverter

The micro - inverter is connected to the solar panel, converting DC into alternating current (AC), which is compatible with household appliances and the power grid.



Photovoltaic Hub

This photovoltaic hub controls the distribution of the generated electricity, ensuring efficient utilization of energy. It allows real - time distribution for household consumption or battery storage.

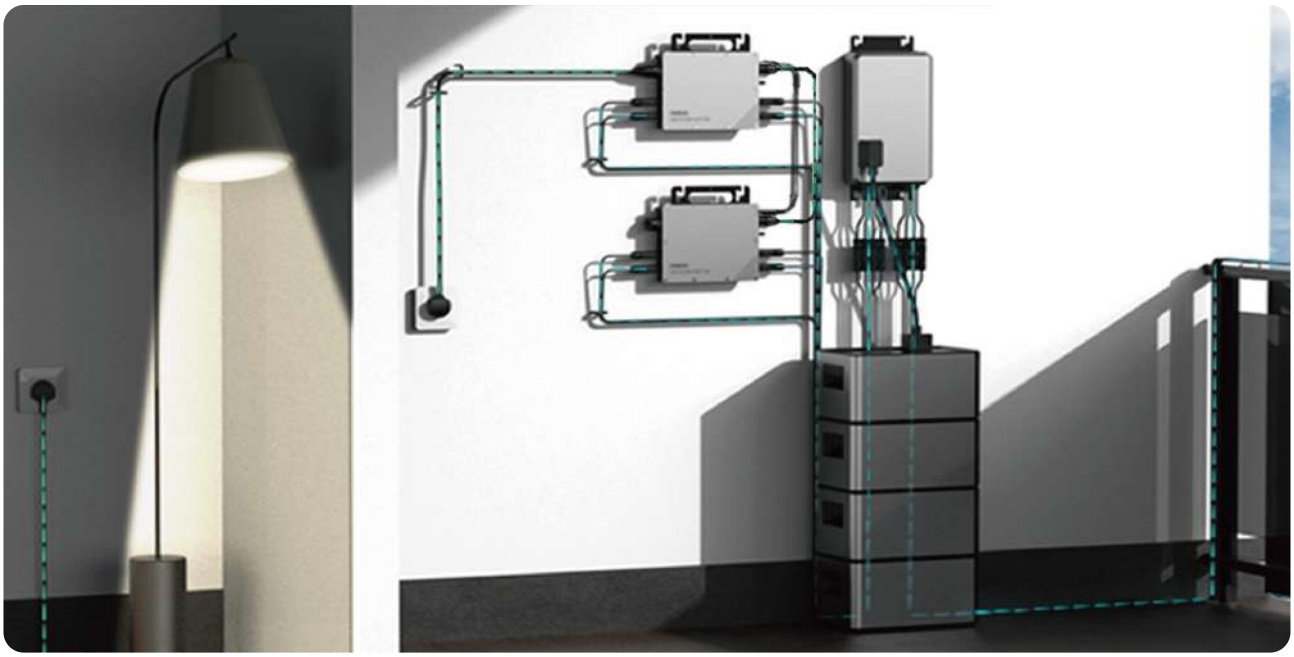


Battery Pack

Excess electricity can be stored in the battery for later use, such as at night or on cloudy days, enhancing energy independence.

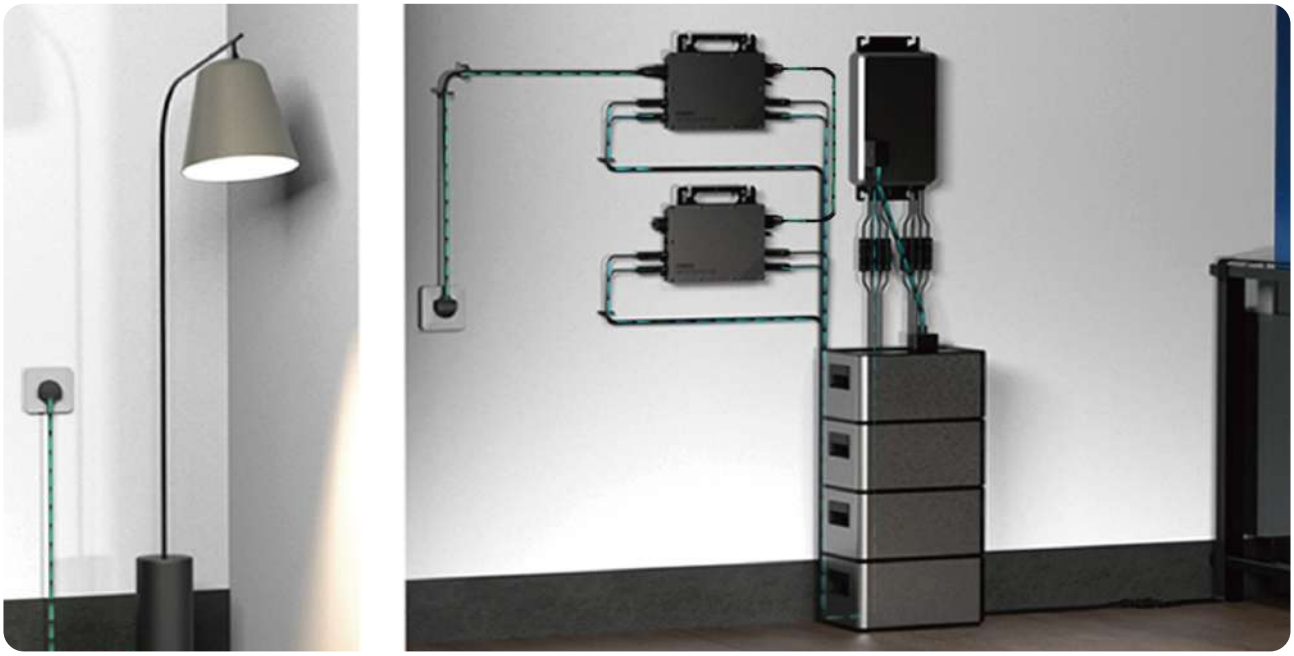
How the Solar PV System Works Daytime

The energy generated by solar panels flows through a PV combiner box, and isconverted into AC power via microinverters to run your home appliances, whileintelligently storing excess energy in the battery pack.



How the Solar PV System Works Nighttime

Using the stored energy from the battery, the system powers your home appliancesthrough the PV combiner box and is converted into AC power via microinverters.



POWER THE HOME WITH MICROINVERTERS

Microinverters convert solar energy into safe, usable power. They support home electricitysupply, reducing power costs. Without microinverters, daytime converted power oftencannot be stored, leading to wasted electricity resources and an inability to maximizesolar energy based on actual home usage.



1600W Highpower Output

Supporys Dual Microinverter Output

The maximum output power reaches 1600W, which canprovide simultaneous power support for two 800W microinverters,maximizing revenue benefits while fully meeting peak-hour electricity demand.



4096Wh High-Capacity Battery Pack

Each individual battery pack has a capacity of 1024Wh, and up to 4 batterypacks can be combined, providing unprecedented flexibility and expandability.

The battery packs store enough electricity during the day to continue powering your home appliances at night.

1024Wh



1 Battery Pack
Annual Electricity Savings

2048Wh



2 Battery Pack
Annual Electricity Savings

3072Wh



3 Battery Pack
Annual Electricity Savings

4096Wh



4 Battery Pack
Annual Electricity Savings

Technical Specifications

PVHUB	
Recommended.PV Module	300W-580W*2
MPPT Voltage Range	18V-60V
Startup Voltage	18V
Max.Input Voltage	60V
Input Voltage PV1	18V-60V
Input Voltage PV2	18V-60V
Max. Continuous DC Output Power	800W*2
Max. Continuous Output Current	23A
Output Voltage DC1	18-55V
Output Current DC1	23A Max
Output Voltage DC2	18-55V
Output Current DC2	23A Max
Max. Efficiency	96%
Dimension(W*D*H)	320*200*55mm
Communications	Wi-Fi/ Bluetooth
Protection Grade	IP65
Warranty	10 Years
Weight	4.7Kg
Power Box	
Nominal Capacity	1024Wh
Nominal Voltage	51.2V
Working Voltage Range	40-58.4V
Battery Type	LiFePO4
Dimension(W*D*H)	320*200*196mm
Weight	9.3kg
Compatible	4
Operating Ambient Temperature Range	-20°~65°C
Protection Grade	IP65
Cooling	Nature Cooling
Warranty	10 Years
Number of cycles	6000
Protocol type	CAN/RS-485

Battery-compatible micro-inverter

Battery-compatible micro-inverter enables solar & storage linkage. Multi-MPPT high efficiency, IP65 waterproof, intelligent bidirectional charge & discharge, all-in-one upgrade solution for balcony residential solar.

400W



800W



1200W



2000W



Technical Specifications

Model	SMMIT-400W	SMMIT-800W	SMMIT-1200W	SMMIT-2000W
Parameter	275–530W×1	275-530Wx2	275-530Wx2	275-530Wx2
Recommended Solar Panel	60V	60V	60V	60V
Max. Input Voltage	18–60V	18-60V	18-60V	18-60V
MPPT Voltage Range	25–55V	25-55V	25-55V	25-55V
Max. Input Current	14A×1	14Ax2	18Ax2	16Ax4
Peak Output Power	400W	800W	1200W	20000W
Nominal Output Voltage	230V	230V	230V	230V
Nominal Output Voltage Range	190–270V	190-270V	190-270V	190-270V
Nominal Output Current	1.74A	3.47A	5.21A	8.69A
Nominal Frequency	50/60Hz			
Enclosure Rating	IP67			
Peak Efficiency	96%			
MPPT Efficiency	>99.5%			
Ambient Temperature Range	-40℃~+65℃			
Communication	Bluetooth/Wi-Fi			
Cooling Mode	Natural cooling			
Product Dimensions	181*157*38mm	233*206*46mm	233*206*46mm	342*223*50mm
Single Pack Dimensions	322*240*100mm	400*250*105mm	400*250*105mm	645*275*113mm
Outer Carton Dimensions	517*340*260mm	560*420*270mm	560*420*270mm	670*470*295mm
Product Net Weight	1.9kg	2.52kg	2.52kg	5.2kg
Single Pack Gross Weight	2.54kg	3.78kg	3.78kg	6.7kg
Carton Weight	13.4kg (5pcs)	19.86kg (5pcs)	19.86kg (5pcs)	27.8kg(4pcs)

Micro Power Station Core Brain

Intelligent core of micro power station, integrated PV MPPT, bidirectional inverter & BMS. Smart energy dispatch, grid/off-grid dual modes, APP remote monitoring, all-weather outdoor protection.



Compact size IP65

Supports high power output

2 bi-directional inputs and outputs

Multiple power modes

Technical Specifications

Model	SMHUB1600
Parameter	18V-60V
MPPT voltage range	60V
Max. input voltage	18V-60V
Max. input voltage	25-55V
MPPT tracking range	25A
Max. input current	PV1+PV2: 1200W
Max.input power	DC1/DC2: 800W
Max. output power	DC1+DC2: 1200W
Max. output current	28A
Output voltage DC1	18-55V
Output voltage DC2	18-55V
MPPT efficiency	99%
Max. efficiency	96%
Communications	Wi-Fi/ Bluetooth
Enclosure rating	IP65
Product size	32020055mm
Packing size	465280107mm
Box size	485440291mm
Product weight	2.44kg
Gross weight	3.34kg
Carton weight	13.87kg

Advantages of Modular Battery Packs

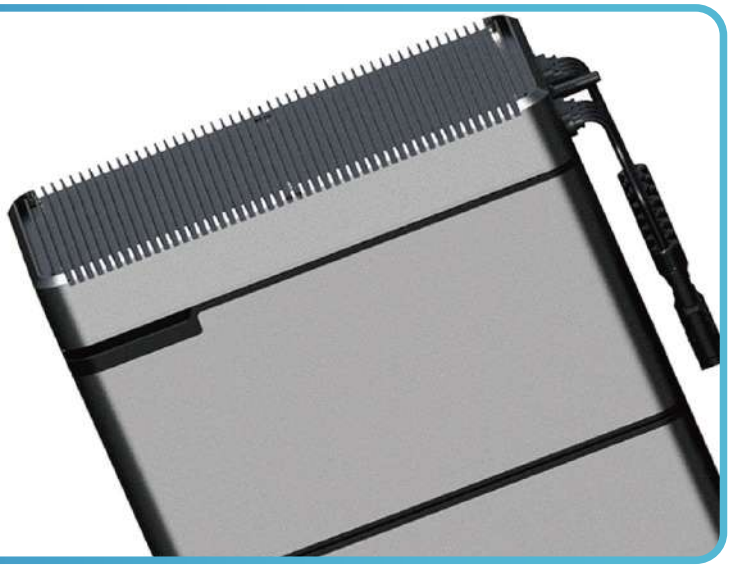
Efficient Heat Dissipation, Built to Last

The solar photovoltaic controller and battery pack are crafted with a pure aluminumalloy casing. High-quality materials and craftsmanship ensure the product isdurable and robust.



Stackable Designto Save Space

Supports stacking up to 6 battery packs.

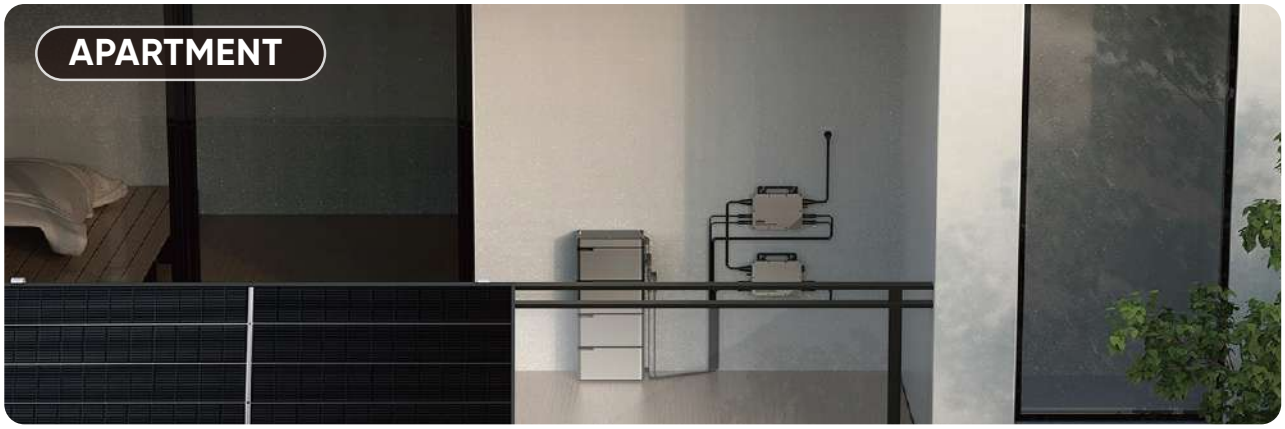


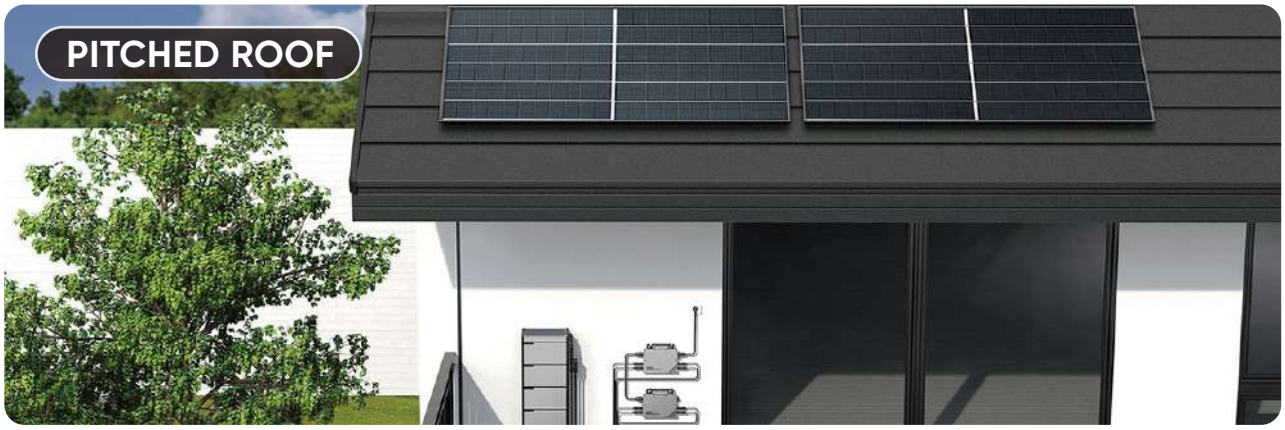
Hand-Carriable Single Battery Pack

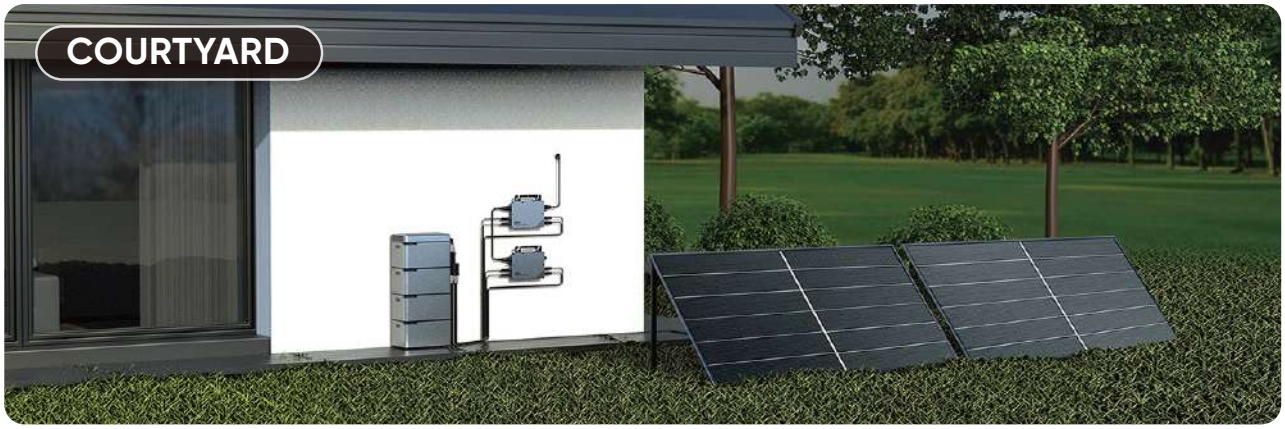
A hidden handle design saves extra space,making the system more unified and cohesive.The weight is suitable for easy single-handed carrying.



Installation Scenarios









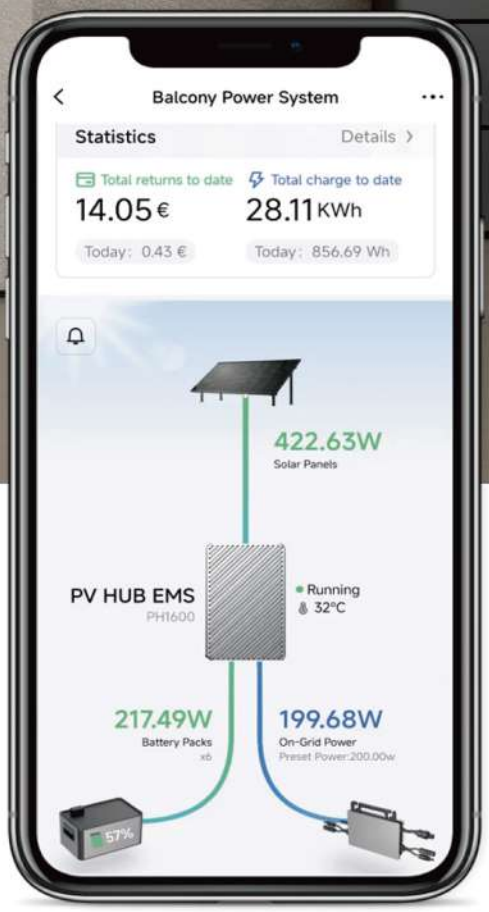
IP65 Protection Rating

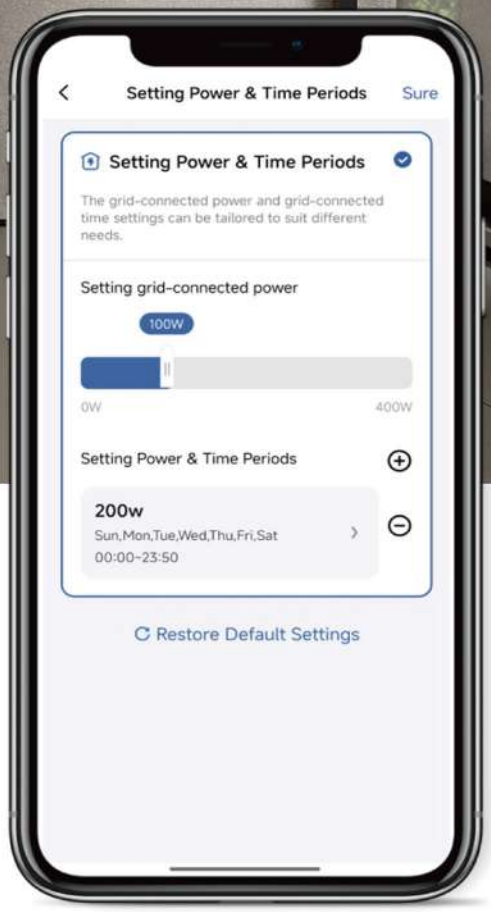
The product adopts a sealed design, capable ofasing IP65 level dust and water rosistance.



App Application

Set the App for your balcony solar system the power supply mod, tailored to your family's dare hality. This appin s-wap let you view and use the system n the oet.status, makizing your solar investment





Remote Monitoring Data

PV Input Power

Home Power Supply Data

Battery Pack Data



SMART ENERGY MANAGEMENT SYSTEM

SMART ENERGY MANAGEMENT

Smart

Safe

Flexible

Compatible

Sunmater micro inverter can manage the production, usage and scheduling of the energy in your household to provide you with a reliable power source and total control over connected appliances in your smart home.

Calculate your home power usage and the exact consumption for each of your appliances, minimizing your bill through optimally distributing solar energy to fulfill electricity consumption.



PROJECT CASE

With years of industrial experience, SunMaster provides cost effective and reliable PV products from home owner to large- scale solar power stations with professionalism and enthusiasm, so as to maximize the return on investment.









