More
+Power
Less Expense

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SUNMASTER

SOLAR MICRO-INVERTER SOLUTION

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

Tier 1
Solar Module Maker

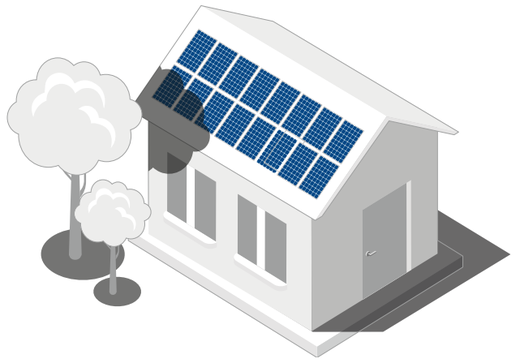
Strong
R&D Team

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

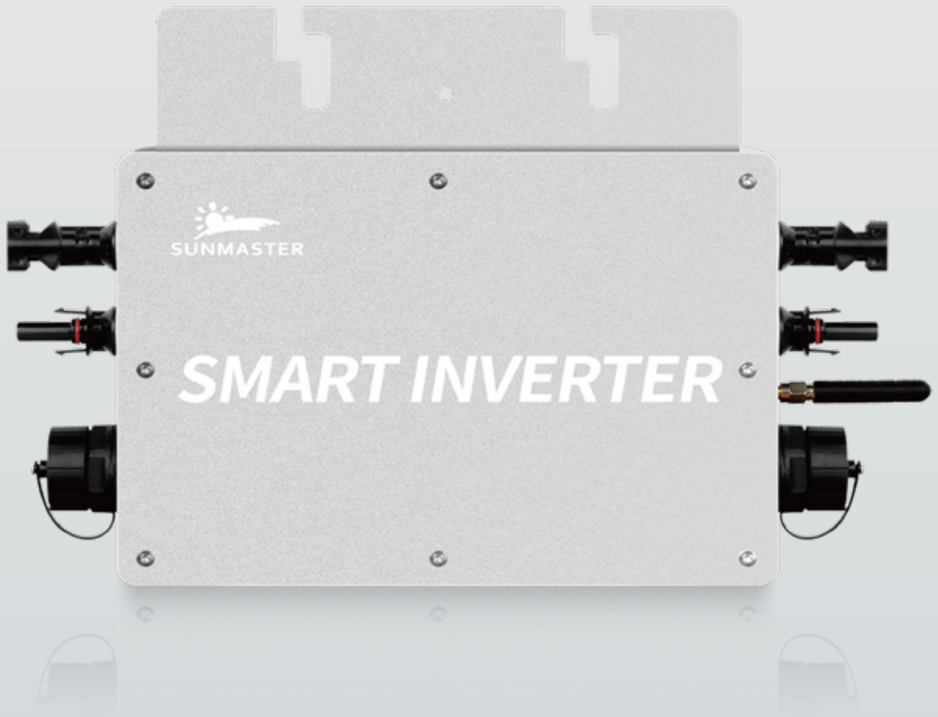
Efficiency

- Harvest 15-25% more energy.Shading and compli-cated 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

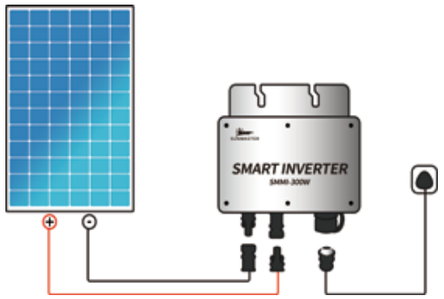
Model	SMMI-2000W	SMMI-2400W	SMMI-2800W
Input Data (DC)			
Commonly used module power (W)	<6x415	<6x500	<6x585
Maximum input voltage (V)		60	
MPPT voltage range (V)		22-60	
Start-up voltage (V)		22	
Maximum input current (A)	92	108	126
Maximum input short circuit current (A)	105	124	144
Number of MPPTs		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.

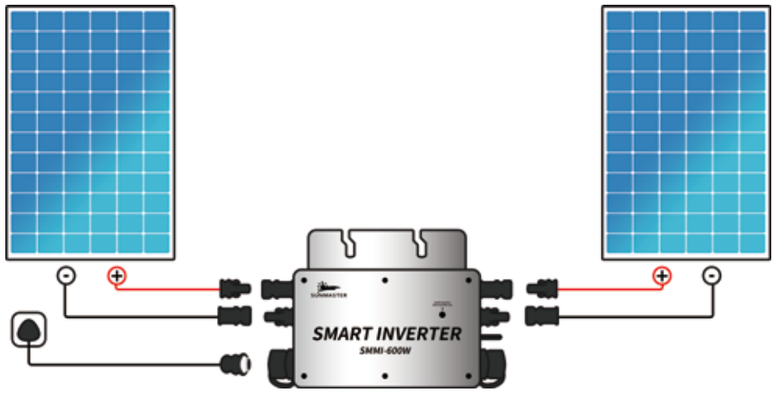
1-IN-1 Series

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.



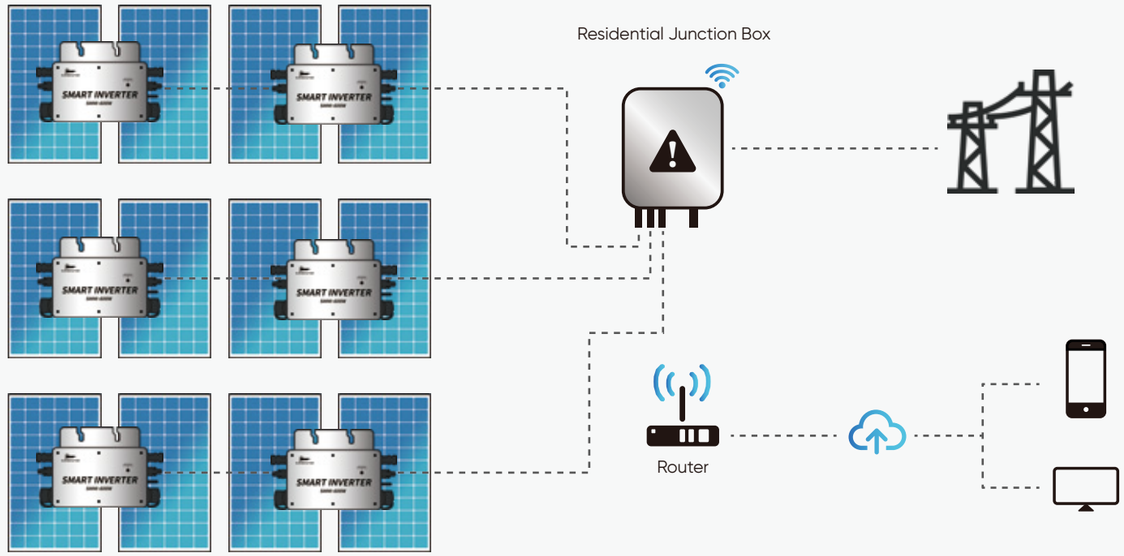
Model	SMMI-300W	SMMI-350W	SMMI-600W	SMMI-700W	SMMI-800W
System Power	300W	350W	600W	700W	800W
Micro-inverter	300W*1Pcs	350W*1Pcs	600W*1Pcs	700W*1Pcs	800W*1Pcs
Solar Panel	375W*1Pcs	435W*1Pcs	375W*2Pcs	435W*2Pcs	465W*2Pcs
Data Transfer Units	WiFi	WiFi	WiFi	WiFi	WiFi
Mounting Bracket	Tile Roof,Tin Roof,Flat 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.

SMART ENERGY MANAGEMENT SYSTEM

SMART ENERGY MANAGEMENT

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.

Smart

Safe

Flexible

Compatible

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.