MICROINVERTER

INTRODUCTION

Microinverter convert the DC power from the solar panel module to the proper AC current for you power grid.The SUN series Microinverters are designed to handle one,two or four solar modules simultaneously(Individual MPPT for each module).Masspower grid tied solar PV Microinverters are designed to operate in real world conditions in temperatures ranging from -40℃ to +65℃. The Masspower Microinverters carry a 25 years warranty and have an expected lifetime of over 25 years,matching the life expectancy of most solar modules.

250G-US

500G-US

1200G-US

THE MASSPOWER MICROINVERTER ADVANTAGES

POWERFUL

Shifting environmental factors constantly challenge the efficiency of solar arrays; dust, debris and shade can drastically lower power output. With a conventional “string” inverter system, the least-performing module determines the productivity of the entire array – so the shadow of a single leaf will compromise the whole system. Masspower microinverters give you more power, independently optimizing the output from each solar module. If one module is shaded, all the other modules in your array will still operate at full power. Built into each Masspower microinverter is a function called Maximum Power Point Tracking. Working at hundreds of times per second, the Masspower microinverter continually finds the greatest possible module power, greatly increasing overall system performance.

Masspower microinverter installations are typically 5-15 percent more efficient than comparable “string” systems. That’s like having more solar modules on your roof with the same-sized array.

SMART

When combined with the Masspower Monitor(Energy Collect Device),the Masspower Microinverter lets you track the performance of each module in your PV array through any web-enabled device.

COST EFFECTIVE

The Masspower microinverter is the affordable, flexible solution for your solar power array. The compact, independent design allows easy installation on virtually any available surface, and because it is an integrated system, the Masspower microinverter solution simplifies system design. Solar arrays can be easily expanded at any time, hassle-free. The savings don’t stop there – our flagship SUN1200G and other microinverter models track multiple PV modules simultaneously. Half the inverters and half the installation means real cost savings for your residential or commercial solar power system.

BANKABLE

All Masspower products undergo rigorous factory testing, evaluation, and field tracking, guaranteeing you the highest quality, most dependable microinverters for your solar array. Masspower microinverters are designed for the same lifespan as the solar module.As the industry leader in solar microinverter technology, Masspower will always be here to stand behind our products.

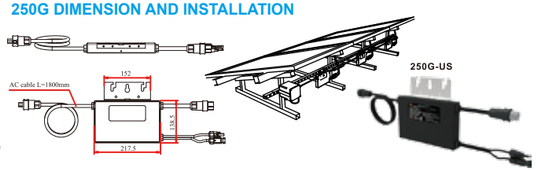
SAFE

Unlike central inverters with high DC voltages in the hundreds of volts, Masspower microinverters tie directly to the low-voltage PV module and connect to the public power grid via standard AC voltages – enhancing worker and homeowner safety, and eliminating the possibility of high-voltage DC “arc” fires.

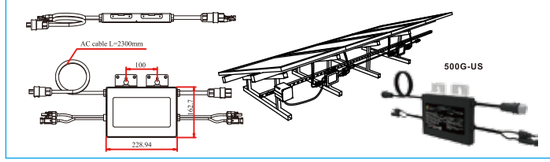
DATA SHEET OF MICROINVERTER

INPUT DATA(DC)	SUN250G/500G /1200G-US	SUN250G/500G /1200G-EU	SUN250G/500G /1200G-SAA
Recommended input power(STC)	250G/210-300W	500G/210-300W (2 Pieces)	1200G/210-300W (4 Pieces)
Maximum input DC voltage	60V		
Peak power tracking voltage	25V-55V		
Operating range	20V-55V		
Min/Max start voltage	20V/60V		
Max DC short circuit current	13A		
Max input current	10.4A		
OUTPUT DATA(AC)			
Peak output power	250W/500W/1200W		
Maximum output power	225W/450W/1000W		
Nominal output current	a.c.1.086A/a.c. 2.174A/a.c.4.807A		
Nominal voltage/range	208V/183V-228V 240V/211V-264V	a.c.184-265V @230VAC	a.c.200-270V @230VAC
Nominal frequency/range	60.0/59.3-60.5Hz	50.0/47.5-51.5Hz	50.0/45-55Hz
Extended frequency/range	60.0/59.3-60.5Hz	50.0/47.5-51.5Hz	50.0/45-55Hz
Power factor	>0.95		
Maximum units per branch	14/8/4		
EFFICIENCY			
CEC weighted efficiency	94.5%		
Peak inverter efficiency	95%		
Static MPPT efficiency	99%		
Night time power consumption	50mW		
MECHANICAL DATA			
Ambient temperature range	-40s℃to+65℃		
Dimensions(WxHxD)	215mm×137mm×30mm(without mounting bracket) 230mm×165mm×30mm(without mounting bracket) 450mm×455mm×35mm(without mounting bracket)		
Weight	2.0kg/2.8kg/5kg		
Cooling	Natural convection-No fans		
Enclosure environmental rating	Outdoor-NEMA6		
FEATURES			
Compatibility		Compatible with 60-82 cell PV madules	
Communication		Power line/Zigbee	
Compliance	UL1741/IEEE1547 CAN/CSA-C22.2 NO.107.1	VDE0126-1-1/VDE4105 EN62109-1 EN62109-2	AS3100,AS4777.2,AS4777.3 IEC62109-IEC62109-2
Warranty	25 years		

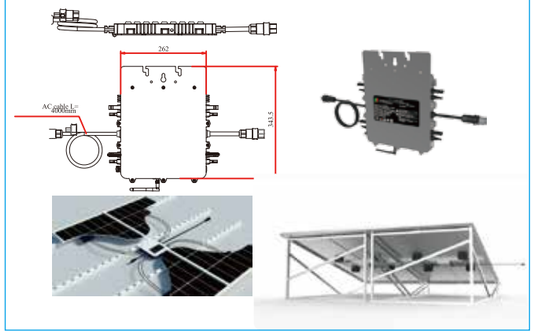
250G DIMENSION AND INSTALLATION



500G DIMENSION AND INSTALLATION



1200G DIMENSION AND INSTALLATION



MONITORING SYSTEM

Masspower ECD(Energy Collect Deviece) Communications Gateway provides network access to the solar array enabling comprehensive monitoring and management of an solar system. Solar professionals and system owners can easily check the status of their solar system using the ECD's LCD display or get more detail performance data via EMA on the internet.

SMART

-Includes web-based monitoring and controlling
-Integrates with smart energy devices
-Automatically upgrades and sends performance data
-Use Zigbee and power line carrier communication technology

SIMPLE

-Plug and play installation
-Flexible network configuration
-No additional AC wiring required

SCALABLE

-Residential or commercial ready out of the box
-Supports up to 150 Microinverters

EMA ONLINE MONTORING PAGE:

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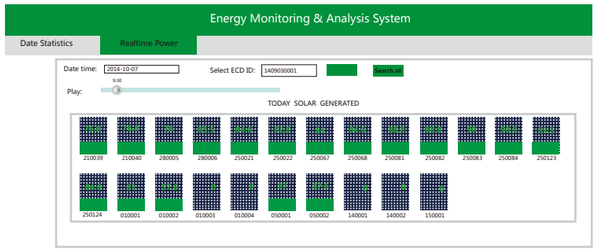

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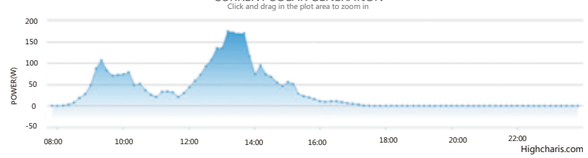

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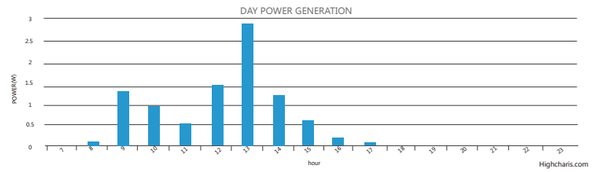

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