



Enginner Solar Limited

Grid Tie Inverters

Summary

1. Unique circuit design, choice of import industrial electronic components, higher efficiency, more stable performance.
2. Creative Mppt technology, efficiency more than 99%, faster and more sensitive reaction, more reliable.
3. Parallel type design for DC input and modularization design for inverter, small volume, distributed installation, easy for system configuration, flexible for combination, strong expansibility of system.
4. Adopting high-frequency isolation transformer type, high efficiency, and high security.
5. Multi-protection functions.
6. Aluminum alloy housing, not rust, heat-resisting and cold-resistant as well as anti-corrosion.
7. Getting electronic circuit design, appearance design and other core technology patents.



WMVC Series

1. DC input: 20-40V and 24-45V
2. Pure sine wave output, MPPT control
3. Waterproof IP65
4. With communication module built-in
5. Double AC output connectors, easy connecting
6. Real time Web-base monitoring= micro inverter + Wi-Fi data sender + Wi-Fi Router + Data processor

Rated Power	200W	230W	250W	260W	300W
Solar panels	60 cells (Vmp: 26-30V, Voc: 34-38V) / 72 cells (Vmp: 35-39V, Voc: 42-46V)				
DC input range	20-40VDC / 24-45VDC				
MPPT Voltage	24-33VDC / 28-36VDC				
DC MAX current	10A	15A	15A	15A	15A
AC output range	120VAC(90-140VAC) or 230VAC(190-260VAC)				
Frequency range	50Hz/60Hz(Auto control)				
Power Factor	>98.5%				
THD	<5%				
Phase Shift	<1%				
Peak Efficiency	>95%	>95%	>95%	>95%	>95%
120VAC Stable Efficiency	>92%	>91%	>91%	>91%	>91%
230VAC Stable Efficiency	>93%	>92%	>92%	>92%	>92%
Protection	Islanding; Short-circuit; Converse Connection; Low Voltage; Over Voltage; Over Temperature Protection				
Work Temperature	-25℃-65℃				
Grade of Waterproof	IP65				
Indicator	Red and green LED				
Cooling	Natural convection: no fans				
Stand-by Power	1-2W				
EMC Reference	EN61000-6-3:2007 EN61000-6-1:2007				
Grid Disturbance Reference	EN 50178+EN 62109-1+VDE0126-1-12				
Grid Detection Reference	DIN VDE 1026 UL1741				
Certificate	CE				
Mounting Dimension	80CM(length)				

Wi-Fi Real Time Intranet Web-base Remote Monitoring System

Parts includes data sender, Wi-Fi router, data processor



Data Processor

1. Supports Win XP, Win 2000, Win 2003, Win 7, Ltnu:
2. Dual cores four channels 1.5GHZ CPU, high performance
3. Gigabit Ethernet Support diskless boot
4. 150M Wi-Fi Wireless network
5. Built-in ASP web server, SQL data base, data recorder, real-time monitoring can be just one step



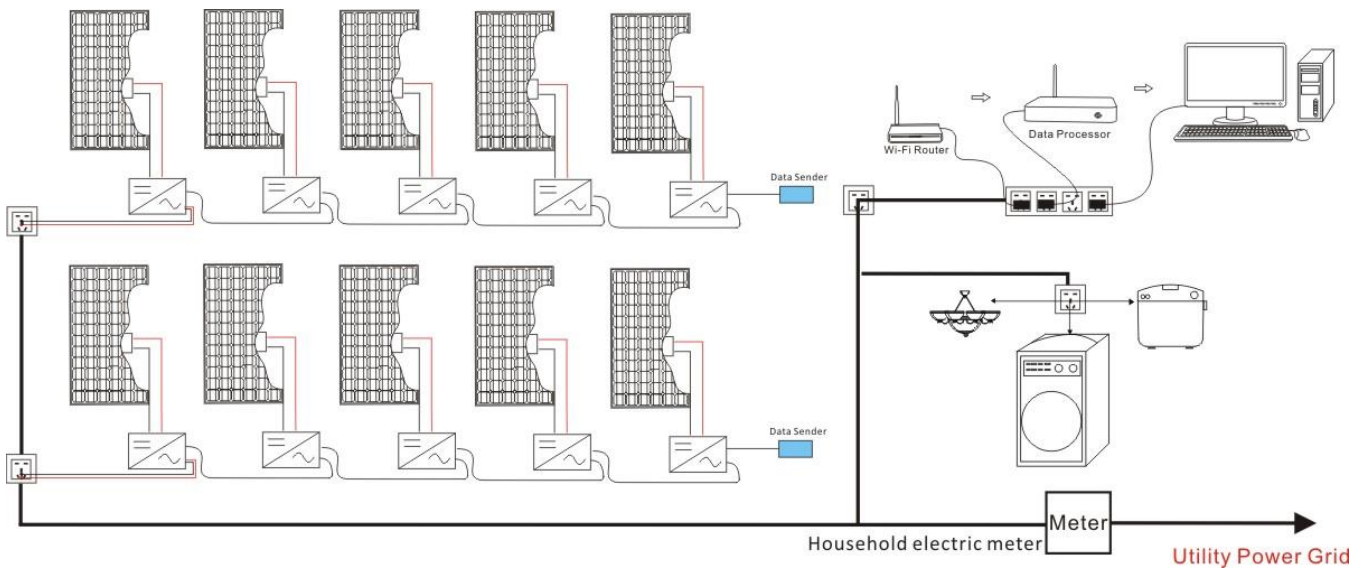
Data sender for SMG:

1. 0.8M length cable
2. Multi-LED indicators
3. External rotary antenna
4. Waterproof



Data sender for WMVC

1. 1.2 M length cable
2. Multi-LED indicators
3. External rotary
4. Waterproof





MGI Series

1. DC Input: 10.5-28V
2. Pure sine wave output
3. MPPT control
4. Indoor Type
5. Power Jack Type
6. Plug and Play, easy for connecting

Model	200W	300W	400W	500W	600W	800W
Input Data(DC)						
Recommended Input Power	240Wp	360Wp	480Wp	600Wp	720Wp	960Wp
Maximum Input Current	20A	25A	30A	35A	45A	60A
DC Voltage Range	10.8-28V					
MPPT Volatge Range	15.5-16.5V					
Output Data(AC)						
Normal Output Voltage	230V (170~260VAC) /110V(90-140VAC)					
Normal Frequency	50Hz/60Hz(Auto control)					
Power Factor	>97.5%					
Total Harmonic Distortion	<5%					
Phase Shift	<1%					
Efficiency						
Peak Efficiency	>89%	>88%	>86%	>85%	>84%	>82%
Stable Efficiency	>88%	>87%	>85%	>84%	>83%	>80%
Stand-by Power	<1W					
Mechanical Data						
Dimensions(L*H*W)	200-500W: 21 x 16.5 x5.3CM			800W: 31 x 16.5 x5.3CM		
Protection	Islanding; Short-circuit; converse connection; Low Voltage; Over Voltage; Over temperature Protection					
Ambient Temperature Range	-25℃-65℃					
Work Environment Humidity	0%~90%RH non-condensing					
Grade of Waterproof	Indoor design					
Show	LED					
Cooling	Cooling Fan					
Features & Compliance						
PV Compatibility	36cells(18V solar panel,Vmp:18V,Voc:21V)					
EMC Reference	EN61000-6-3:2007 EN61000-6-1:2007					
Grid Disturbance Reference	EN 50178+EN 62109-1+VDE0126-1-12					
Grid Detection Reference	DIN VDE 1026 UL1741					
Certificate	CE					



MGIN Series

1. DC Input: 20-48V
2. Pure sine wave output, MPPT control
3. Indoor Power Jack Type
4. Plug and Play, easy for connecting
5. Compatible with 72 cells and 60 cells solar panels
6. Also can work with 24V/36V/48V batteries

Rated Power	200W	300W	400W	500W	600W
Solar Panels	60 cells (Vmp: 26-30V, Voc: 34-38V) / 72 cells (Vmp: 35-39V, Voc: 42-46V)				
DC Input Range	20-48VDC				
MPPT Voltage	24-33VDC / 28-36VDC				
DC MAX. Current	10A	15A	20A	25A	35A
AC MAX. Output	230W	330W	430W	550W	650W
AC Output Range	120VAC/230VAC(90-260VAC)				
Frequency Range	50Hz/60Hz(Auto control)				
Power Factor	>97.5%				
THD	<5%				
Phase Shift	<2%				
Peak Efficiency	>89%	>89%	>88%	>88%	>87%
Stable Efficiency	>87%	>87%	>86%	>86%	>85%
Protection	Islanding; Short-circuit; converse connection; Low Voltage; Over Voltage; Over temperature Protection				
Work Temperature	-25°C-65°C				
Work Humidity	0%~90%RH non-condensing				
Grade of Waterproof	Indoor design				
Show	Luminous Diode(LED)				
Cooling	Fan				
Stand-by Power	<2W				
EMC Reference	EN61000-6-3:2007 EN61000-6-1:2007				
Grid Disturbance Reference	EN 50178+EN 62109-1+VDE0126-1-12				
Grid Detection Reference	DIN VDE 1026 UL1741				
Certificate	CE				
Mounting Dimension	16*13CM				



MGI 100W Series

1. DC Input: 10.5-28V and 20-40V and 24-48V
2. Pure sine wave output, MPPT control
3. Indoor Power Jack Type
4. Plug and Play, easy for connecting
5. Stackable

Rated Power	1000W		
Compatible with Solar Panels	36 cells/18V Vmp: 18-21V; Voc: 20-24V	60 cells/24V Vmp: 26-30V; Voc: 34-38V	72 cells/36V Vmp: 35-39V; Voc: 42-46V
DC Input Range	10.8-28V	20-45V	24-45V
MPPT Voltage	15-23VDC	24-34VDC	26-36VDC
DC MAX. Current	80A	60A	50A
AC Output	120VAC(90-140VAC) or 230VAC(190-260VAC)		
Frequency	50Hz/60Hz(Auto control)		
Power Factor	>97.5%		
THD	<5%		
Phase Shift	<2%		
Efficiency	120VAC(90-140VAC)		
Peak Efficiency	82%	87%	87%
Stable Efficiency	79%	84%	85%
Efficiency	230VAC(190-260VAC)		
Peak Efficiency	82%	87%	89%
Stable Efficiency	80%	85%	85%
Protection	Islanding; Short-circuit; Low Voltage; Over Voltage; Over Temperature Protection		
Working Temperature	-25°C-70°C		
Working Humidity	0%~90%RH non-condensing		
Waterproof	Indoor design		
Show	Luminous Diode(LED)		
Cooling	Fan		
Stand-by Power	<1W		
EMC Reference	EN61000-6-3:2007 EN61000-6-1:2007		
Grid Disturbance Reference	EN 50178+EN 62109-1+VDE0126-1-12		
Grid Detection Reference	DIN VDE 1026 UL1741		

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