



POWER SUN series Inverter with Charger

Product Characteristic

- High Efficiency/Energy Saving
- Low self-Consumption below 1.2A.It can reach zero at energy saving mode.
- Make sure the load capacity is above 200W.or the inverter can not be restarted automatically
- Leading energy saving technology
- With the AVR function.AC voltage fluctuated is within $\pm 5\%$
- Pure sine wave
- Extreme overload capacity and super load capacity
- Working Appliance:Air-conditioners.refrigerators.water pumps.TV.Light.fans and other household appliances and office appliances etc.
- Durable LF transformer technology design.it is suitable for the poor working conditions or where the grid power is not stable
- LED display LCD display optional
- DC reverse polarity protection

Performance Characteristic

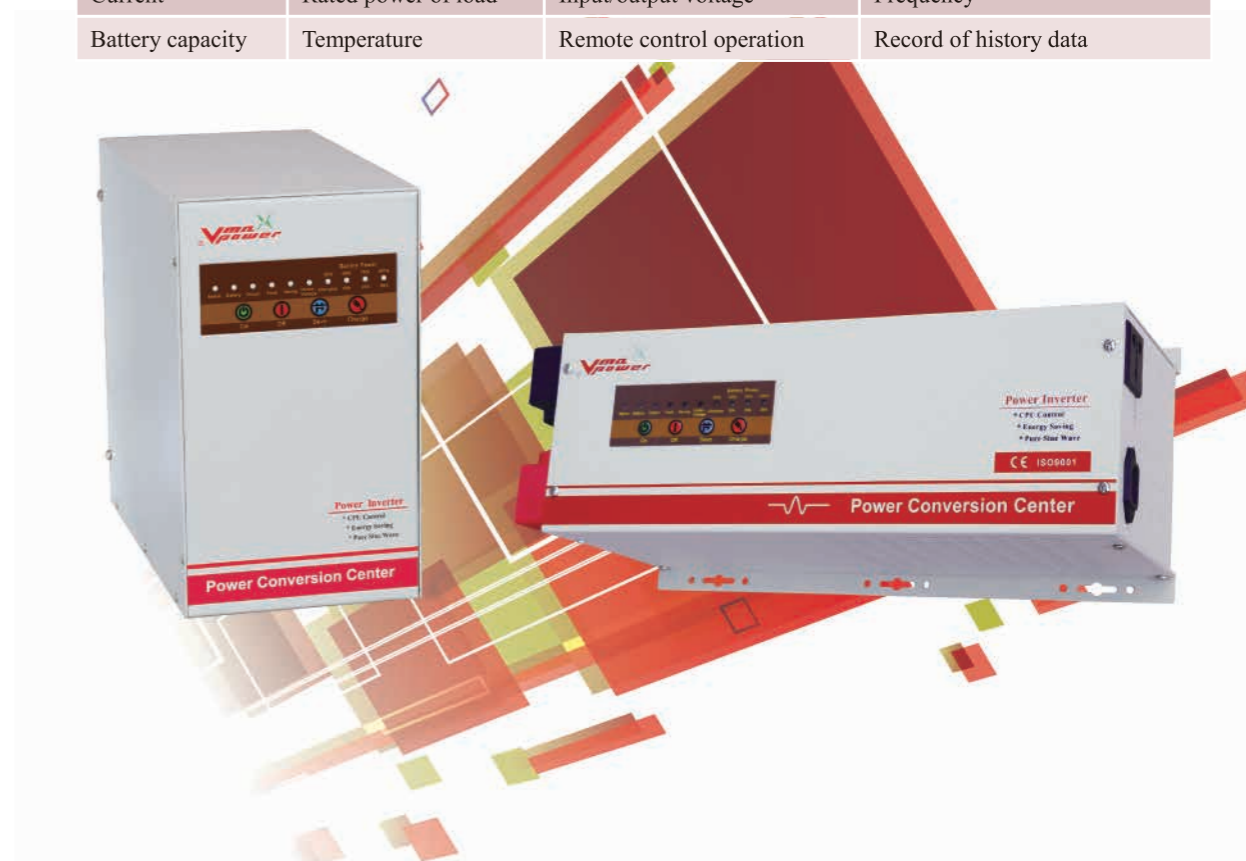
- CPU Technology control
- Large charging current. up to 70Amp.
- Intelligent LED/LCD display:Grid power.battery.AC output.Fault.Saving.Low voltage.Charging. Charging current.Battery capacity.
- Intelligent battery management for maximum battery life
- Automatically switch between the grid and inverter mode
- Transfer time is below 4 ms if the grid power are cutted off
- 220V/110V AC 50/60Hz is optional
- It can work with the generator
- Intelligent fan control mode.The fan work at Temperature $\geq 30^{\circ}\text{C}$.the inverter will protect by itself at temperature $\geq 100^{\circ}\text{C}$

LCD Display Data

Input/Output voltage	Output Power	Battery Voltage	Charge current	Input Frequency	Charge current setting		
Language	Version	:	Discharging Protection Voltage Setting	Battery Capacity setting	Battery type setting	Solar Prior Grid setting	Energy saving

Communication Data

Current	Rated power of load	Input/output voltage	Frequency
Battery capacity	Temperature	Remote control operation	Record of history data



Technical Data POWER SUN

AC output Load	VMI-D 500W	VMI-D800W	VMI-D 1000W
Nominal AC voltage	220V/200-240V	220V/200-240V	220V/200-240V
Optional 220V/120V	120V/105V-132V	120V/105V-132V	120V/105V-132V
Nominal AC frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Continuous AC power for 3 hours 25°C	500W	800W	1000W
Continuous AC power 25°C	450W	720W	900W
Nominal AC current/ Max.AC current(peak)	2.0A/6.0A 1ms 3.75A/11.25A 1ms	3.27A/9.8A 1ms 6.0A/18A 1ms	4.1A/12.3A 1ms 7.5A/22.5A 1ms
THD output voltage	≤3%	≤3%	≤3%
Power Factor	0.9	0.9	0.9
AC input (generator or grid)			
AC input voltage/range	220V/165-270V 120V/105V-132V	220V/165-270V 120V/105V-132V	220V/165-270V 120V/105V-132V
AC input frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Battery DC input			
Battery voltage/range	12V/10-16V	12V/10-16V	12V/10-16V
Optional	24V/20-32V 48V/40-64V	24V/20-32V 48V/40-64V	24V/20-32V 48V/40-64V
Max.battery charging current/continuous charging current at 25°C	30A/10-30A	30A/10-30A	30A/10-30A
Battery type/Battery Capacity	Lead acid 100-1000Ah	Lead acid 100-1000Ah	Lead acid 100-1000Ah
Charge control mode	3 stage	3 stage	3 stage
Efficiency/Self-consumption			
Max. efficiency	>85%	>85%	>85%
Self-consumption with no load	0.7A	0.8A	1.0A
Self-consumption with no load /standby/for LCD type only	0.1A	0.1A	0.1A
Full intellectual protection			
	Over voltage/over charge/AC short circuit/overload/battery discharge voltage/battery over voltage/overtemperature/over current/overheat protection/ dc polarity label		
Transfer time	≤ 4ms		
Dimension(L×W×H) mm	320×190×260	320×190×260	320×190×260
Net Weight KG	15	17	19
Operating temperature range	0°C ~ 45°C	0°C ~ 45°C	0°C ~ 45°C
Degree of protection according to IEC60529	IP20	IP20	IP20
Noise emission typical	≤30dB (1M)	≤30dB (1M)	≤30dB (1M)
Permissible value for relative humidity	0% ~ 95%	0% ~ 95%	0% ~ 95%
Accessories			
DC terminal	Anderson connector	Anderson connector	Anderson connector
AC terminal	Europe terminal	Europe terminal	Europe terminal
Warranty	2year	2year	2year
Certificate	CE/ISO9001	CE/ISO9001	CE/ISO9001
Instruction Manual	yes	yes	yes
Optional Function			
Battery Cable	Optional	Optional	Optional
Interface USB/RS232	Optional	Optional	Optional
SNMP Card	Optional	Optional	Optional
Software CD	Optional	Optional	Optional
Internet monitor	Optional	Optional	Optional
Remoted control	Optional	Optional	Optional
DC reverse polarity protection	Optional	Optional	Optional
Automatically restart after cut off	Optional	Optional	Optional
Split phase 220V/110V±5%:output	Optional	Optional	Optional
Alarm at inverter mode/silence	Optional	Optional	Optional
LCD Display	Optional	Optional	Optional

Technical Data POWER SUN

AC output Load	VMI-D 1500W	VMI-D 2000W
Nominal AC voltage	220V/200-240V	220V/200-240V
Optional 220V/120V	120V/105V-132V	120V/105V-132V
Nominal AC frequency	50Hz/60Hz	50Hz/60Hz
Continuous AC power for 3 hours 25°C	1500W	2000W
Continuous AC power 25°C	1350W	1800W
Nominal AC current/ Max.AC current(peak)	6.15A/18.5A 1ms 11.25A/33.75A 1ms	8.17A/24.55 1ms 15.0A/45A 1ms
THD output voltage	≤3%	≤3%
Power Factor	0.9	0.9
AC input (generator or grid)		
AC input voltage/range	220V/165-270V 120V/105V-132V	220V/165-270V 120V/105V-132V
AC input frequency	50Hz/60Hz	50Hz/60Hz
Battery DC input		
Battery voltage/range	12V/10-16V	12V/10-16V
Optional	24V/20-32V 48V/40-64V	24V/20-32V 48V/40-64V
Max.battery charging current/continuous charging current at 25°C	30A/10-30A	30A/10-30A
Battery type/Battery Capacity	Lead acid 100-1000Ah	Lead acid 100-1000Ah
Charge control mode	3 stage	3 stage
Efficiency/Self-consumption		
Max. efficiency	>85%	>85%
Self-consumption with no load	20W	25W
Self-consumption with no load /standby/for LCD type only	5W	5W
Full intellectual protection		
	Over voltage/over charge/AC short circuit/overload/battery discharge voltage/battery over voltage/overtemperature/over current/overheat protection/ dc polarity label	
Transfer time	≤ 4ms	≤ 4ms
Dimension(L×W×H) mm	400×215×355	400×215×355
Net Weight KG	24	26
Operating temperature range	20°C ~ 45°C	20°C ~ 40°C
Degree of protection according to IEC60529	IP20	IP20
Noise emission typical	≤30dB (1M)	≤30dB (1M)
Permissible value for relative humidity	0% ~ 95%	0% ~ 95%
Accessories		
DC terminal	Anderson connector	Anderson connector
AC terminal	Europe terminal	Europe terminal
Warranty	2year	2year
Certificate	CE/ISO9001	CE/ISO9001
Instruction Manual	yes	yes
Optional Function		
Battery Cable	Optional	Optional
Interface USB/RS232	Optional	Optional
SNMP Card	Optional	Optional
Software CD	Optional	Optional
Internet monitor	Optional	Optional
Remoted control	Optional	Optional
DC reverse polarity protection	Optional	Optional
Automatically restart after cut off	Optional	Optional
Split phase 220V/110V±5%:output	Optional	Optional
Alarm at inverter mode/silence	Optional	Optional
LCD Display	Optional	Optional

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AC output Load	VMI-D 3000W	VMI-D 4000W	VMI-D 5000W
Nominal AC voltage	220V/200-240V	220V/200-240V	220V/200-240V
Optional 220V/120V	120V/105V-132V	120V/105V-132V	120V/105V-132V
Nominal AC frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Continuous AC power for 3 hours 25°C	2700W	3600W	4500W
Continuous AC power 25°C	2400W	3200W	4000W
Nominal AC current/ Max.AC current(peak)	10.91A/32.73A 1ms 20.0A/60.0A 1ms	14.55A/43.63A 1ms 26.66A/80.0A 1ms	18.19A/54.55A 1ms 33.33A/99.99A 1ms
THD output voltage	≤3%	≤3%	≤3%
Power Factor	0.8	0.8	0.8
AC input (generator or grid)			
AC input voltage/range	220V/165-270V 120V/105V-132V	220V/165-270V 120V/105V-132V	220V/165-270V 120V/105V-132V
AC input frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Battery DC input			
Battery voltage/range	12V/10-16V	24V/20-32V	24V/20-32V
Optional	24V/20-32V 48V/40-64V	48V/40-64V	48V/40-64V
Max.battery charging current/continuous charging current at 25°C	30A/10-30A/50A	30A/10-30A/50A	30A/10-30A/50A
Battery type/Battery Capacity	Lead acid 100-1000Ah	Lead acid 100-1000Ah	Lead acid 100-1000Ah
Charge control mode	3 stage	3 stage	3 stage
Efficiency/Self-consumption			
Max. efficiency	>85%	>85%	>85%
Self-consumption with no load	30W	30W	30W
Self-consumption with no load /standby/for LCD type only	5W	5W	6W
Full intellectual protection			
	Over voltage/over charge/AC short circuit/overload/battery discharge voltage/battery over voltage/over temperature/over current/overheat protection/ dc polarity label		
Transfer time	≤ 4ms		
Dimension(L×W×H)	400×215×355	400×215×355	400×215×355
Net Weight KG	29	32	36
Operating temperature range	0°C ~ 45°C	0°C ~ 45°C	0°C ~ 45°C
Degree of protection according to IEC60529	IP20	IP20	IP20
Noise emission typical	≤30dB (1M)	≤30dB (1M)	≤30dB (1M)
Permissible value for relative humidity	0% ~ 95%	0% ~ 95%	0% ~ 95%
Accessories			
DC terminal	Anderson connector	Anderson connector	Anderson connector
AC terminal	Europe terminal	Europe terminal	Europe terminal
Warranty	2year	2year	2year
Certificate	CE/ISO9001	CE/ISO9001	CE/ISO9001
Instruction Manual	yes	yes	yes
Optional Function			
Battery Cable	Optional	Optional	Optional
Interface USB/RS232	Optional	Optional	Optional
SNMP Card	Optional	Optional	Optional
Software CD	Optional	Optional	Optional
Internet monitor	Optional	Optional	Optional
Remoted control	Optional	Optional	Optional
DC reverse polarity protection	Optional	Optional	Optional
Automatically restart after cut off	Optional	Optional	Optional
Split phase 220V/110V±5%.output	Optional	Optional	Optional
Alarm at inverter mode/silence	Optional	Optional	Optional
LCD Display	Optional	Optional	Optional

AC output Load	VMI-D6000W	VMI-D 8000W
Nominal AC voltage	220V/200-240V	220V/200-240V
Optional 220V/120V	120V/105V-132V	120V/105V-132V
Nominal AC frequency	50Hz/60Hz	50Hz/60Hz
Continuous AC power for 3 hours 25°C	5400W	7000W
Continuous AC power 25°C	5000W	6000W
Nominal AC current/ Max.AC current(peak)	22.78A/68.18A 1ms 41.67A/125.00A 1ms	27.28A/81.81 1ms 50A/150A 1ms
THD output voltage	≤3%	≤3%
Power Factor	0.8	0.8
AC input (generator or grid)		
AC input voltage/range	220V/165-270V 120V/105V-132V	220V/165-270V 120V/105V-132V
AC input frequency	50Hz/60Hz	50Hz/60Hz
Battery DC input		
Battery voltage/range	24V/20-32V	48V/40-64V
Optional	48V/40-64V	
Max.battery charging current/continuous charging current at 25°C	30A/10-30A	30A/10-30A
Battery type/Battery Capacity	Lead acid 100-1000Ah	Lead acid 100-1000Ah
Charge control mode	Lead acid 100-1000Ah	Lead acid 100-1000Ah
Efficiency/Self-consumption		
Max. efficiency	>85%	>85%
Self-consumption with no load	35W	50W
Self-consumption with no load /standby/for LCD type only	5W	5W
Full intellectual protection		
	Over voltage/over charge/AC short circuit/overload/battery discharge voltage/battery over voltage/over temperature/over current/overheat protection/ dc polarity label	
Transfer time	≤ 4ms	≤ 4ms
Dimension(L×W×H)	435×270×420	435×270×420
Net Weight KG	40	42
Operating temperature range	0°C ~ 45°C	20°C ~ 45°C
Degree of protection according to IEC60529	IP20	IP20
Noise emission typical	≤30dB (1M)	≤30dB (1M)
Permissible value for relative humidity	0% ~ 95%	0% ~ 95%
Accessories		
DC terminal	Anderson connector	Anderson connector
AC terminal	Europe terminal	Europe terminal
Warranty	2year	2year
Certificate	CE/ISO9001	CE/ISO9001
Instruction Manual	yes	yes
Optional Function		
Battery Cable	Optional	Optional
Interface USB/RS232	Optional	Optional
SNMP Card	Optional	Optional
Software CD	Optional	Optional
Internet monitor	Optional	Optional
Remoted control	Optional	Optional
DC reverse polarity protection	Optional	Optional
Automatically restart after cut off	Optional	Optional
Split phase 220V/110V±5%.output	Optional	Optional
Alarm at inverter mode/silence	Optional	Optional
LCD Display	Optional	Optional

Inverter with Charger

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Technical Data POWER SUN

AC output Load	VMI-D10000W	VMI-D 12000W
Nominal AC voltage	220V/200-240V	220V/200-240V
Optional 220V/120V	120V/105V-132V	120V/105V-132V
Nominal AC frequency	50Hz/60Hz	50Hz/60Hz
Continuous AC power for 3 hours 25°C	8000W	10000W
Continuous AC power 25°C	8000W	10000W
Nominal AC current/ Max.AC current(peak)	36.38A/109.26A 1ms 72.67A/215.00A 1ms	45.60A/136.80 1ms 90A/270A 1ms
THD output voltage	≤3%	≤3%
Power Factor	0.8	0.8
AC input (generator or grid)		
AC input voltage/range	220V/165-270V 120V/105V-132V	220V/165-270V 120V/105V-132V
AC input frequency	50Hz/60Hz	50Hz/60Hz
Battery DC input		
Battery voltage/rangeOptional	48V/40-64V	48V/40-64V
Max.battery charging current/continuous charging current at 25°C	30A/10-30A	30A/10-30A
Battery type/Battery Capacity	Lead acid 100-1000Ah	Lead acid 100-1000Ah
Charge control mode	Lead acid 100-1000Ah	Lead acid 100-1000Ah
Efficiency/Self-consumption		
Max. efficiency	>85%	>85%
Self-consumption with no load	70W	80W
Self-consumption with no load /standby/for LCD type only	5W	5W
Full intellectual protection	Over voltage/over charge/AC short circuit/overload/battery discharge voltage/battery over voltage/overtemperature/over current/overheat protection/ dc polarity label	
Transfer time	≤ 4ms	≤ 4ms
Dimension(L×W×H)	435×270×620	435×270×620
Net Weight (KG)	55	68
Operating temperature range	20°C ~ 45°C	20°C ~ 40°C
Degree of protection according to IEC60529	IP20	IP20
Noise emission typical	≤30dB (1M)	≤30dB (1M)
Permissible value for relative humidity	0% ~ 95%	0% ~ 95%
Accessories		
DC terminal	Anderson connector	Anderson connector
AC terminal	Europe terminal	Europe terminal
Warranty	2year	2year
Certificate	CE/ISO9001	CE/ISO9001
Instruction Manual	yes	yes
Optional Function		
Battery Cable	Optional	Optional
Interface USB/RS232	Optional	Optional
SNMP Card	Optional	Optional
Software CD	Optional	Optional
Internet monitor	Optional	Optional
Remoted control	Optional	Optional
DC reverse polarity protection	Optional	Optional
Automatically restart after cut off	Optional	Optional
Split phase 220V/110V+-5%.output	Optional	Optional
Alarm at inverter mode/silence	Optional	Optional
LCD Display	Optional	Optional

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