



Inverter with Charger Wall type

Beijing Multifit Electrical Technology Co.,Ltd



BeiJing Multifit Electrical Technology Co.,Ltd

Company Address: 503 Building 5 No10 Ronghuanan road ,Beijing
development Zone 100176,BeiJing China

Factory address:No.15 KeChuang street. Beijing Economic&Technological development Zone
100176,BeiJing China

Tel: 86-010-87227420 Fax: 86-10-87227420

Mobile No.: 13641024477;15910870754

Skype: eastrenergy; leslie_1008

MSN: wangli_1008@hotmail.com; ywjhydx616@hotmail.com

QQ: 64570386

Email: multifit@multifitele.com Email:64570386@qq.com

Website: <http://www.multifitele.com>

Inverter with Charger Wall type



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



Inverter with Charger Vertical type

Performance Characteristics

CPU Technology control

Big 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	:	Charging voltage setting	Battery Capacity setting	Battery type setting	Solar Prior Grid prior setting	Energy saving
Chinese/English/French/Russian							

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	420×180×150	420×180×150	420×180×150
Net Weight KG	18	22	24
Operating temperature range	20°C ~ 45°C	20°C ~ 40°C	20°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

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Technical Data POWER SUN

AC output Load	VMI-D1500W	VMI-D2000W
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 intellective 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)	490×255×200	490×255×200
Net Weight	27	29
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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Technical Data POWER SUN

AC output Load	VMI-D3000W	VMI-D4000W	VMI-D5000W
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/50
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 intellective 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		
Dimenstion(L×W×H)	575×255×200	575×255×200	575×255×200
Net Weight	32	34	36
Operating temperature range	20°C ~ 45°C	20°C ~ 40°C	20°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

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