Hisolar®

Zhejiang JingYing New Energy Company

— 20240515(V06)

- 太阳能逆变器
- 储能电池
- 太阳能控制器
- 光伏组件
- UPS
- EPS

Hisolar®

KEEPING THE WORLD
ALWAYS BRIGHT

Inverter

Hisolar®

https://cnhisolar.net/

BUSINESS BROCHURE

1993-NOW

FOCUS OVER 30 YEARS
ALWAYS INNOVATE AND LEAD

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We sincerely hope that the manual could bring you convenience!

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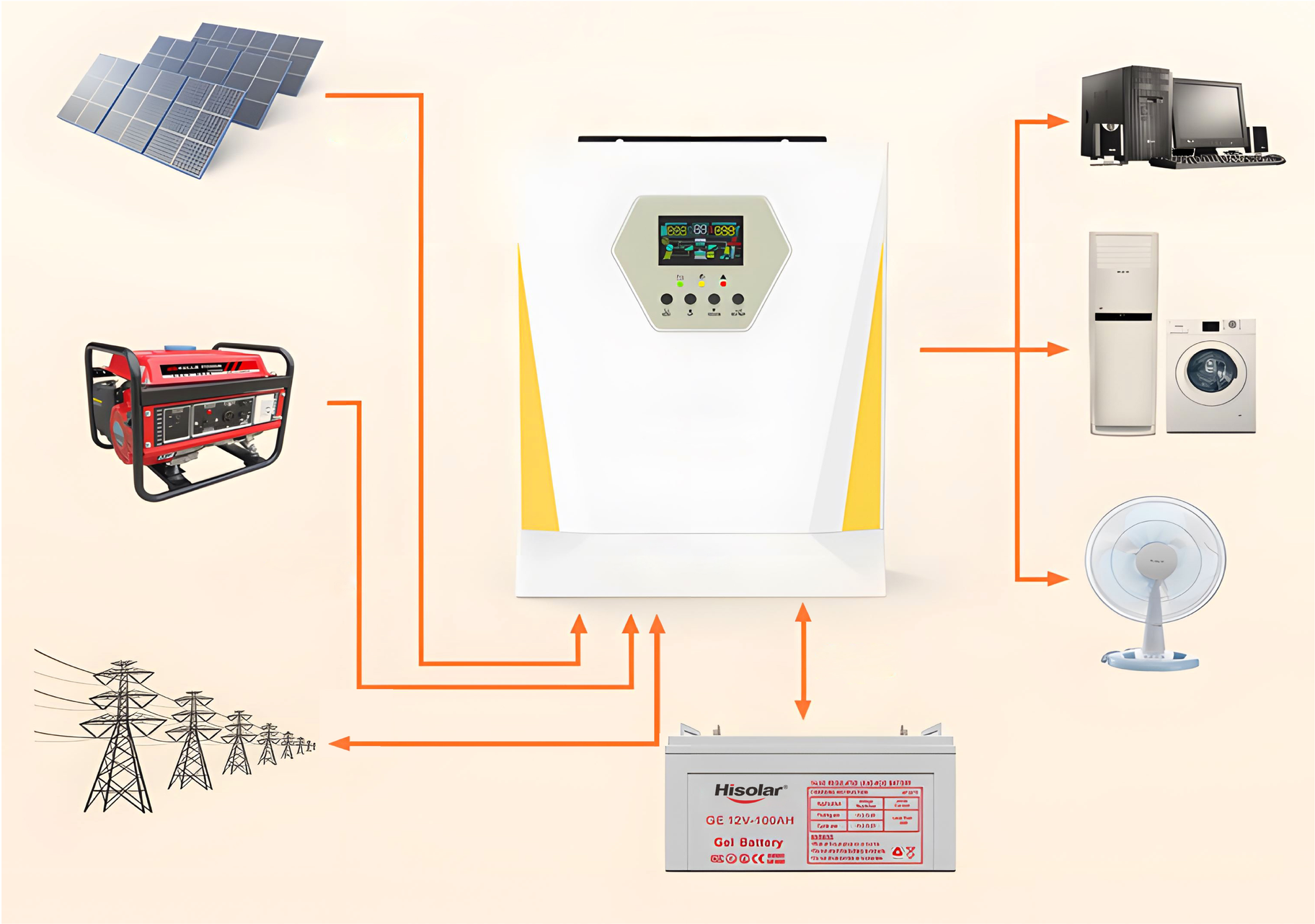
CE RoHS ISO 9001 FC IEC

Application Demo



太阳能逆变器GD系列精致版

SOLAR INVERTER GD SERIES E

1200W~2400W

应用范围
Application

产品特性
Features

- 空载损耗小，低于同功率高频机的一半
  Low no-load loss, lower than high-frequency machines with the same power rate
- 纯正弦波输出，可适应不同负载
  Pure sine wave output, suitable for different loads
- 根据用户需要，可以调节多项参数
  Multiple parameters can be adjusted according to user needs
- 轻薄机身，方便安装，方便运输
  Slim Body, Convenient Installation And Transportation
- 无熔丝开关电池防反接功能：安装更安全
  Battery Reverse Connection Protection with Fuse Switch, Safer Installation
- 带MPPT太阳能控制器
  Optional solar controller with MPPT
- 输出电压精度高，呵护您的电器
  High Precision of Output Voltage,Take Care of Your Appliances
- 支持WIFI / 锂电池BMS通讯
  External WIFI / BMS function for lithium battery

GD系列
GD Series

型号Model		GD2012EMH	GD3024EMH
输入 AC Input voltage	额定输入电压AC Input	220VAC（标准）/110VAC（定制）	
	电压范围Input Voltage Range	90-280VAC±3V（正常模式Normal Mode）170-280VAC±3V （UPS模式UPS Mode）	
	输入频率Input Frequency	50/60Hz±5%	
输出 Output	输出额定功率Rated Power	1600W	3000W
	市电下输出电压Output Voltage	市电下的输出电压跟输入电压一样 The output voltage under mains power is the same as the input voltage	
	市电下输出频率Output Frequency	市电下的输出频率跟输入频率一样 The output frequency under mains power is the same as the input frequency	
	逆变下输出电压Output Voltage	220VAC±10% (110VAC±10%)	
	逆变下输出频率Output Frequency	50HZ或60HZ±1%	
	逆变下输出波形Output Wave	纯正弦波Pure Sine Wave	
电池 Battery	电池类型Battery Type	外接铅酸电池，胶体电池，水电池或者锂电池 External lead-acid battery,Gel battery, water battery or Lithium battery	
	额定电压Rated Voltage	12VDC	24VDC
	充电电压 Constant Charging Voltage (Adjustable)	14.1VDC	28.2VDC
充电器 Charger	最大光伏阵列功率 Maximum Photovoltaic Array Power	2000W	3000W
	PV输入电压范围(MPPT)PV Input Voltage Range	40V-450VDC	40V-500VDC
	最大光伏阵列开路电压 MAX PV Input Voltage	400VDC	500VDC
	最佳Vmp工作范围 Best VMP Working Range	300-400VDC	300-400VDC
	最大PV充电电流 MAX PV Charge Current	60A	100A
	最大市电充电电流 MAX AC Charge Current	60A	60A
	转换时间Transfer Time	≤10ms（UPS模式）/≤20ms（INV模式）	
	过载能力 Overload Ability	电池模式 Battery Mode：21s@105%~150% Load 11s@150%~200% Load 400ms@>200% Load	
保护Protect	市电下 AC	市电下：输入过流无熔丝开关保护 Input overcurrent without fuse switch protection	
	逆变下Inversion	逆变下：过载保护、短路保护、低压保护、电池反接保护（保险管） overload, short circuit , low voltage, battery reverse connection protection (fuse)	
显示Display	显示屏Display Screen	彩色段码屏Color segment code screen	
	翻页Flipping Pages	可显示运行模式/负载/输入/输出等Can display operating mode/load/input/output	
	LED	LED灯显示市电，充电状态，逆变状态，故障状态 LED lights display mains power, charging status, inverter status, and fault status	
环境参数 Ambient Temperature	运行环境温度 Operating Temperature	-10℃~50℃	
	储存温度Storage Temperature	-10℃~60℃	
	声音提示Sound On	蜂鸣器根据故障代码不同，报警声音不同，用长短音区分 The alarm sound of the buzzer varies depending on the fault code	
	运行环境湿度Operating Environment Humidity	20%~90%无凝露 Non Condensing	
	噪音Noise	≤ 50dB	
物理参数Dimension	深*宽*高L*W*H（mm）	345*254*105mm	

太阳能逆变器GD系列

SOLAR INVERTER GD SERIES

3000W~11000W

应用范围
Application

产品特性
Features

- 锂电自启，更好匹配锂电充电
  Lithium Battery Auto-restart Function，More Convenient for Lithium Battery Charging
- 智能供电模式，智能分配太阳能板/市电/电池的电能占比
  Intelligent Power Supply Mode, Intelligent Distribution of Solal Panel/Mains/BatteryPower Shares
- 市电充电电压/PV充电电压智能可调，精准匹配各种电池充电要求
  Utility Charging Voltage/PV Charging Voltage Adjustable， Match Different Battery Charging Requirements
- 方便安装，方便运输
  Convenient Installation And Transportation
- 无熔丝开关电池防反接功能：安装更安全
  Battery Reverse Connection Protection with Fuse Switch, Safer Installation
- 1.0 PF，高效逆变，低损耗节能/环保/省电/省钱
  PFI.0, High Efficiency, Lower Consumption,Energy Conservation/Environmental Protection/Electricity Saving/Cost Saving
- 支持不带电池工作：降低系统成本
  Support Working without Battery: Reduce Solar System Cost
- 可以外接wifi，数据实时化监控
  Communication Option: External WIFI, Supervise at Any Time
- 输出电压精度高，±5%呵护您的电器
  High Precision of Output Voltage,±5%, Take Care of Your Appliances
- BMS 锂电池BMS协议
  BMS function for lithium battery

GD系列
GD Series

型号Model		GD3024JMH	GD3624JMH	GD5548JMH	GD6248JMH	GD11048MH
输入 Input voltage	输入制式Input Formation	L+N+PE				
	额定输入电压AC Input	220/230/240VAC				
	电压范围Input Voltage Range	90-280VAC±3V（正常模式Normal Mode）170-280VAC±3V （UPS模式UPS Mode）				
	频率范围Frequency	50/60Hz（自适应 Adaptive）				
输出 Output	输出额定功率Rated Power	3000W	3600W	5500W	6200W	11000W
	输出电压Output Voltage	220/230/240VAC±5%				
	输出频率Output Frequency	50/60Hz±0.1%				
	波形 Output Wave	纯正弦波Pure Sine Wave				
	切换时间（可设）Transfer Time(Adjustable)	计算机设备10ms，家用电器20ms 10ms for Computer Equipment,20ms for Household Equipment				
	峰值功率Peak Power	6000VA	7200VA	10000VA	12400VA	22000VA
	过载能力 Overload Ability	电池模式 Battery Mode：21s@105%~150% Load 11s@150%~200% Load 400ms@>200% Load				
	额定电压Rated Voltage	24VDC		48VDC		
电池 Battery	恒压充电电压（可设） Constant Charging Voltage (Adjustable)	28.2VDC		56.4VDC		
	浮充充电电压（可设） Float Charging Voltage (Adjustable)	27VDC		54VDC		
	PV充电方式PV Charging Method	MPPT				MPPT*2
充电器 Charger	PV最大输入功率Max PV Input	4200W		5500W	6200W	2x5500W
	追踪范围MPPT Tracking Range	120~500VDC		120~500VDC	120~500VDC	90~500VDC
	最佳Vmp工作范围 Best VMP Working Range	300~400VDC		300~400VDC	300~400VDC	300~400VDC
	最大PV输入电压 MAX PV Input Voltage	500VDC		500VDC	500VDC	500VDC
	最大PV输入电流 MAX PV Input Current	18A				18A/18A
	最大PV充电电流 MAX PV Charge Current	100A	100A	100A	100A	150A
	最大市电充电电流 MAX AC Charge Current	60A	80A	60A	80A	150A
	最大充电电流 MAX Charge Current	100A	120A	100A	120A	150A
显示Display	LCD	可显示运行模式/负载/输入/输出等Can display operating mode/load/input/output				
接口Interface	RS232	5PIN/Pitch2.54mm，波特率Baud Rate 2400				
	扩展插槽通讯接口 Expansion Slot Communication Interface	2×5PIN/Pitch2.54mm,锂电池BMS通信卡、WIFI卡、干接点卡等 Lithium Battery BMS Communication Card,WIFI 2×5PIN/Pitch2.54mm				
环境参数 Ambient Temperature	运行环境温度 Operating Temperature	-10℃~50℃				
	储存温度Storage Temperature	-15℃~60℃				
	海拔高度 Ork Altitude	海拔高度不应超过1000m，1000m以上降额，最高4000m，参考IEC62040 No more than 1000m, If 1000m<,Rate power will lower, MAX 4000m, Refer to IEC62040				
	运行环境湿度Operating Environment Humidity	20%~95%无凝露Non Condensing				
	噪音Noise	≤50db				
物理参数Dimension	深*宽*高L*W*H（mm）	495*312*146mm				570*500*148mm
标准和认证 Standards and Certifications		EN-IEC 60335-1,EN-IEC 60335-2-29,IEC 62109-1				

太阳能逆变器GD系列并机版B

SOLAR INVERTER GD SERIES B

5500W~11000W

应用范围
Application

产品特性
Features

- 锂电自启，更好匹配锂电充电
  Lithium Battery Auto-restart Function，More Convenient for Lithium Battery Charging
- 智能供电模式，智能分配太阳能板/市电/电池的电能占比
  Intelligent Power Supply Mode, Intelligent Distribution of Solal Panel/Mains/BatteryPower Shares
- 市电充电电压/PV充电电压智能可调，精准匹配各种电池充电要求
  Utility Charging Voltage/PV Charging Voltage Adjustable， Match Different Battery Charging Requirements
- 方便安装，方便运输
  Convenient Installation And Transportation
- 无熔丝开关电池防反接功能：安装更安全
  Battery Reverse Connection Protection with Fuse Switch, Safer Installation
- 1.0 PF，高效逆变，低损耗节能/环保/省电/省钱
  PFI.0, High Efficiency, Lower Consumption,Energy Conservation/Environmental Protection/Electricity Saving/Cost Saving
- 支持不带电池工作：降低系统成本
  Support Working without Battery: Reduce Solar System Cost
- 最多可以并机九台，支持更大容量的负载，扩容简单
  Parallel Function Up to Maximum 9 Units: Enlarge More Loads
- BMS 锂电池BMS协议
  BMS function for lithium battery
- 可以外接wifi，数据实时化监控
  Communication Option: External WIFI, Supervise at Any Time

GD并机系列

GD Series

型号Model		GD5548JMHB	GD6248JMHB	GD8648MHB	GD11048MHB
输入 Input voltage	输入制式Input Formation	L+N+PE			
	额定输入电压AC Input	220/230/240VAC			
	电压范围Input Voltage Range	90-280VAC±3V（正常模式Normal Mode）170-280VAC±3V （UPS模式UPS Mode）			
	频率范围Frequency	50/60Hz（自适应 Adaptive）			
输出 Output	输出额定功率Rated Power	5500W	6200W	8600W	11000W
	输出电压Output Voltage	220/230/240VAC±5%			
	输出频率Output Frequency	50/60Hz±0.1%			
	波形 Output Wave	纯正弦波Pure Sine Wave			
	切换时间（可设）Transfer Time(Adjustable)	计算机设备10ms，家用电器20ms 10ms for Computer Equipment,20ms for Household Equipment			
	峰值功率Peak Power	11000VA	12400VA	17200VA	22000W
	过载能力 Overload Ability	电池模式 Battery Mode：21s@105%~150% Load 11s@150%~200% Load 400ms@>200% Load			
并网运行 Grid connected Operation	输出电压Output Voltage	220/230/240VAC			
	馈入电网电压范围Grid Voltage Range	195-253VA			
	馈入电网频率范围Grid Frequency Range	49-51±1Hz/59-61±1Hz			
	标称输出电流Output Current	23.9A	26.9A	34.7A	47.8A
	功率因数范围Power Factor Range	>0.99			
	最大转换效率(DC/AC）Conversion Efficiency	98%			
电池 Battery	额定电压Rated Voltage	48VDC			
	恒压充电电压（可设） Constant Charging Voltage (Adjustable)	56.4VDC			
	浮充充电电压（可设） Float Charging Voltage (Adjustable)	54VDC			
充电器 Charger	PV充电方式PV Charging Method	MPPT	MPPT	MPPT*2	MPPT*2
	PV最大输入功率Max PV Input	5500W	6200W	2x5500W	2x5500W
	追踪范围MPPT Tracking Range	120~500VDC	120~500VDC	90~500VDC	90~500VDC
	最佳Vmp工作范围 Best VMP Working Range	300~400VDC	300~400VDC	300~400VDC	300~400VDC
	最大PV输入电压 MAX PV Input Voltage	500VDC	500VDC	500VDC	500VDC
	最大PV输入电流 MAX PV Input Current	18A	18A	18A/18A	18A/18A
	最大PV充电电流 MAX PV Charge Current	100A	100A	150A	150A
	最大市电充电电流 MAX AC Charge Current	60A	80A	120A	150A
	最大充电电流 MAX Charge Current	100A	120A	150A	150A
显示Display	LCD	可显示运行模式/负载/输入/输出等Can display operating mode/load/input/output			
接口Interface	RS232	5PIN/Pitch2.54mm，波特率Baud Rate 2400			
	扩展插槽通讯接口 Expansion Slot Communication Interface	2×5PIN/Pitch2.54mm,锂电池BMS通信卡、WIFI卡、干接点卡等 Lithium Battery BMS Communication Card,WIFI 2×5PIN/Pitch2.54mm			
	并机接口Parallel Interface	并机(网)功能 Support Parallel			
环境参数 Ambient Temperature	运行环境温度 Operating Temperature	-10°C~50°C			
	储存温度Storage Temperature	-15°C~60°C			
	海拔高度 Ork Altitude	海拔高度不应超过1000m，1000m以上降额，最高4000m，参考IEC62040 No more than 1000m, If 1000m<,Rate power will lower, MAX 4000m, Refer to IEC62040			
	运行环境湿度Operating Environment Humidity	20%~95%无凝露Non Condensing			
	噪音Noise	≤50db			
物理参数Dimension	深*宽*高L*W*H（mm）	495*312*146mm		570*500*148mm	
标准和认证 Standards and Certifications		EN-IEC 60335-1,EN-IEC 60335-2-29,IEC 62109-1			

太阳能逆变器UD系列

SOLAR INVERTER UD SERIES

800W~10000W

应用范围
Application

产品特性
Features

- 纯正弦波输出
  Pure sine wave output
- 可选支持WIFI /GPRS
  Can support WIFI / GPRS
- 控制器MPPT 的效率是 98%
  MPPT efficiency max 98%
- BMS 锂电池BMS协议
  BMS function for lithium battery
- 直流启动及自动自诊断功能
  DC start & automatic self-diagnostic fuction
- 可选发电机自启
  Automatically send signal to start generator
- 用于优化电池性能的高效设计
  High efficiency design for optimized battery performance
- 充电电流可调节
  Selectable charging current based on applications
- 可调节市电启动电压，自动重启电压
  AC start-up voltage auto restart voltage
- 可选铅酸电池/锂电池机型
  lead acid battery/Lithium battery

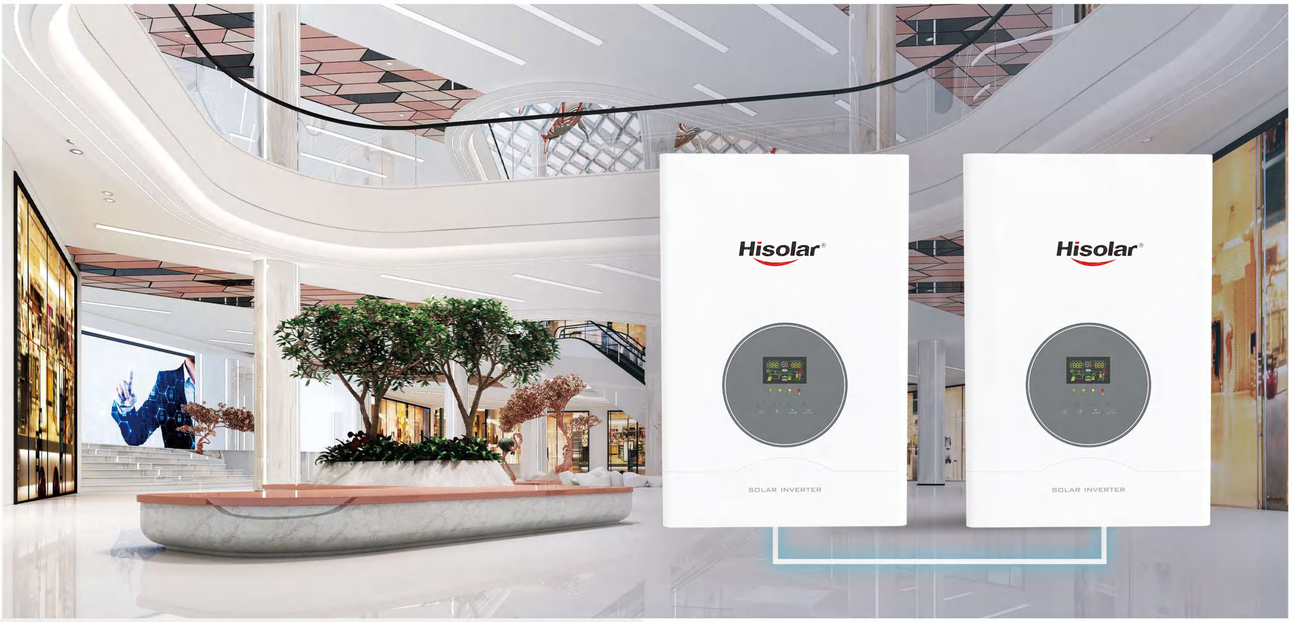
UD系列

UD Series

型号Model	UD1012AP	UD1512AP	UD1524AP	UD2024AP	UD3024AM	UD5048AM	UD6348AM	UD10048AM	UD12548AM
电源输入AC Input voltage	220VAC(standard)				220VAC(standard)				
输入电压范围Input voltage range	154-264VAC±3V(Nor Model)185-264VAC±3V(UPS model) 110V机型：77-132VAC±3V（Nor Model） 92-132VAC±3V（UPS model）								
输入频率Input frequency	50/60Hz±5%				50/60Hz±5%				
额定输出功率Out put power	1000VA 800W	1500VA 1200W	1500VA 1200W	2000VA 1600W	3000VA 2400W	5000VA 4000W	6300VA 5000W	10000VA 8000W	12500VA 10000W
市电下输出电压 AC model output Voltage	市电下的输出电压跟输入电压一样 The output voltage under the mains is the same as the input voltage								
市电下输出频率 AC model outout frequency	市电下的输出频率跟输入频率一样 The output frequency under the mains is the same as the inputfrequency								
逆变下输出电压 Battery model output voltage	220VAC±10%（定制110VAC±10%）								
逆变下输出频率 Battery model output frequency	50HZ or 60HZ±1%								
逆变下输出波形 Battery model output wave	正弦波Pure sine wave								
电池类型Battery type	外接铅酸电池，胶体电池，水电池或者锂电池 External lead-acid battery,Gel battery, water battery or Lithium battery								
电池电压Battery voltage	12VDC	12VDC	24VDC	24VDC	24VDC	48VDC	48VDC	48VDC	48VDC
电池充电电压 Battery charging voltage	13.7VDC	13.7VDC	27.4VDC	27.4VDC	27.4VDC	54.8VDC	54.8VDC	54.8VDC	54.8VDC
最大光伏阵列功率 Maximum PV array power	12V:800W		24V:1600W			48V:6400W			
太阳能输入电压范围 Solar input voltage range	12V: PWM 15V-50VDC 24V: PWM 30V-105VDC				24V:MPPT 30V-150VDC 48V: MPPT 60V-150VDC				
最大光伏陈列开路电压 Maximum PV Display Open Circuit Voltage	12V: PWM 50VDC 24V: PWM 105VDC				24V:MPPT 150VDC 48V:MPPT 150VDC				
最大太阳能充电电流 Maximum solar charging current	60A						120A		
最大AC充电电流 Maximum AC Charge Current	30A	40A	20A	30A	60A	40A	50A	80A	100A
转换时间Transfer time	≤10ms（UPS模式）/≤20ms（INV模式）								
负载峰值比load peak ratio	(MAX)3:1								
保护功能Protective function	市电下：输入过流保险丝Under the mains：input overcurrent fuse 逆变下：过载保护、短路保护、低压保护，（可带电池防反接板）。 Under inverter: overload protection,short circuit protection, low voltage protection, (with battery anti-reverse connection，board).								
状态显示Status Display	通过翻页键可以查看，AC电压，AC频率，PV电压，PV电流，输出电压，输出频率，电池电压，负载电流等参数。 You can view parameters such as AC voltage, AC frequency, PVvoltage, PV current, output voltage, output frequency, battery voltage, load current and other parameters by turning the page keys.								
声音提示Voice prompt	电池低电保护蜂鸣器长鸣Low battery protection buzzer long beep 电池低电蜂鸣器一秒一鸣Low battery buzzer beeps every second 机器故障蜂鸣器长鸣 Machine fault buzzer beeps 过载蜂鸣器长鸣 Overload buzzer beeps 过载小于130%蜂鸣器一秒一鸣，30s后关断输出，超载大于150%时300ms后关断输出 When the overload is less than 130%, the buzzer will sound every second,and the output will be turned off after 30S. When the overload is greater than 150%,the output will be turned off after 300mS.								
工作温度Operating temperature	0°C~40°C								
存放温度Storage temperature	-15°C~45°C								
相对温度Relative temperature	-10°C~90°C无凝结 no condensation								
噪音Noise	<45dB								
机器尺寸 size (L*W*H)mm	465*310*135MM						545*400*200MM		

UD并机系列

UD Series



太阳能逆变器UD系列并机版B

SOLAR INVERTER UD SERIES B

5000W~10000W

应用范围

Application

产品特性

Features

- 纯正弦波输出
  Pure sine wave output
- 自主研发的PCB板和散热系统，质量更稳定
  Self design PCB board and cooling system
- 充电效率高，MPPT 最大效率可达98%
  MPPT efficiency max 98%
- 锂电池BMS协议
  BMS function for lithium battery
- 高效设计和“省电模式”以节省能源
  High Efficiency Design & "Power Saving Mode" to Conserve Energy
- 市电恢复自动重启功能
  Auto Restart when Ac in recovering
- 可实现并机扩容,9台同时工作（兼容三相并机）
  Parallel Function Up to Maximum 9 Units
- 充电电流可调节
  Selectable charging current based on applications
- 可调节市电启动电压，自动重启电压
  AC start-up voltage auto restart voltage
- 支持锂电通讯、外置WIFI、干接点功能
  Supports lithium battery communication and external WIFI

型号Model	UD6348MB	UD12548MB
电源输入AC Input voltage	220VAC(standard)	
输入电压范围Input voltage range	90-275VAC±3V(正常模式Nor Model) 170-275VAC±3V(UPS模式UPS model)	
输入频率Input frequency	50/60Hz±5%	
额定输出功率Out put power	5000W	10000W
市电下输出电压 AC model output Voltage	市电下的输出电压跟输入电压一样 The output voltage under the mains is the same as the input voltage	
市电下输出频率 AC model outout frequency	市电下的输出频率跟输入频率一样 The output frequency under the mains is the same as the inputfrequency	
逆变下输出电压 Battery model output voltage	220VAC±10%	
逆变下输出频率 Battery model output frequency	50HZ or 60HZ±1%	
逆变下输出波形 Battery model output wave	正弦波Pure sine wave	
电池类型Battery type	外接铅酸电池，胶体电池，水电池或者锂电池 External lead-acid battery,Gel battery, water battery or Lithium battery	
电池电压Battery voltage	48VDC	
电池充电电压 Battery charging voltage	56.4VDC(可设范围：48V-61V)	
最大光伏阵列功率 Maximum PV array power	3200W	6400W
太阳能输入电压范围 Solar input voltage range	48V: MPPT 60V-150VDC(定制可200VDC)	
最大光伏陈列开路电压 Maximum PV Display Open Circuit Voltage	48V: MPPT 150VDC(定制可200VDC)	
最大太阳能充电电流 Maximum solar charging current	60A	120A
最大AC充电电流 Maximum AC Charge Current	50A	100A
转换时间Transfer time	≤10ms（UPS模式）/≤20ms（INV模式）	
负载峰值比load peak ratio	(MAX)3:1	
保护功能Protective function	市电下：输入过流保险丝 Under the mains：input overcurrent fuse 逆变下：过载保护、短路保护、低压保护，电池反接保护（保险管） Under inverter: overload protection,short circuit protection, low voltage protection, battery reverse connection protection (fuse).	
状态显示Status Display	通过翻页键可以查看，AC电压，AC频率，PV电压，PV电流，输出电压，输出频率，电池电压，负载电流等参数。 You can view parameters such as AC voltage, AC frequency, PVvoltage, PV current, output voltage, output frequency, battery voltage, load current and other parameters by turning the page keys.	
声音提示Voice prompt	电池低电保护蜂鸣器长鸣Low battery protection buzzer long beep 电池低电蜂鸣器一秒一鸣Low battery buzzer beeps every second 机器故障蜂鸣器长鸣 Machine fault buzzer beeps 过载蜂鸣器长鸣 Overload buzzer beeps 过载小于130%蜂鸣器一秒一鸣，30s后关断输出，超载大于150%时300ms后关断输出 When the overload is less than 130%, the buzzer will sound every second,and the output will be turned off after 30S. When the overload is greater than 150%,the output will be turned off after 300mS.	
接口Interface	RS232，锂电池BMS通讯，并机接口，干接点卡 RS232, lithium battery BMS communication, parallel interface, dry junction card	
工作温度Operating temperature	-10℃~50℃	
存放温度Storage temperature	-15℃~45℃	
相对温度Relative temperature	20%~95%无凝结 no condensation	
噪音Noise	<45dB	
机器尺寸 size (L*W*H)mm	527*330*149mm	545*400×*200mm

智能逆变器 HB系列

INVERTER HB SERIES

400W~4000W

应用范围
Application

产品特性
Features

纯正弦波逆变器，适合带不同的负载
Pure sine wave inverter, suitable for different loads

塔式结构机箱，根据国外使用习惯带提手
Tower structure chassis, according to the habit of foreign use with handle

独立通风通道，发热元件变压与控制区分离，机器更稳定
Independent ventilation channel, heating element pressure and control area separation, the machine is more stable

面板带市电总开关，不使用时设备可完全断电无功耗
The panel has a main power switch, when not in use, the device can be completely power-off without power consumption

输出短路保护功能
Output short circuit protection function

根据用户需要，可以调节多项参数
According to the user needs, you can adjust a number of parameters

HB系列

HB series

型号Model	HB0512	HB0812	HB1012	HB1512	HB1524	HB2024	HB3024	HB3048	HB5048
电源输入Power input	220VAC（标准）/ 110VAC（定制）								
输入电压范围 Range of Input Voltage	220V机型：145-275VAC±3V 110V机型：73-137VAC±3V					220V机型：154-264VAC±3V（正常模式）185-264VAC±3V（UPS模式） 110V机型：77-132VAC±3V（正常模式）92-132VAC±3V（UPS模式）			
输入频率 Input Frequency	50/60Hz±5%								
额定输出功率 Output Rated Power	400W	640W	800W	1200W	1200W	1600W	2400W	2400W	4000W
市电下输出电压 INV mode, Output voltage	市电下的输出电压跟输入电压一样								
市电下输出频率 INV mode, Output voltage	市电下的输出频率跟输入频率一样								
逆变下输出电压 INV mode, Output voltage	220VAC±10%(110VAC±10%)								
逆变下输出频率 INV mode, Output voltage	50HZ或60HZ±1%								
逆变下输出波形 INV mode, Output waewform	纯正弦波 Pure Sine Wave								
电池类型 Battery type	外接铅酸蓄电池或水电池 External lead acid battery or water battery								
电池电压 Battery Voltage	12VDC				24VDC			48VDC	
电池充电电压 Battery Charging Voltage	13.75DC				27VDC			54VDC	
最大市电充电电流 Maximum AC Charging Current	8A	13A	18A	30A	15A	20A	30A	15A	22A
电池充电电压范围 Range of Battery Charging Voltage	150-280VAC								
转换时间Transfer Time	≤10ms								
负载峰值比Load peak ratio	(MAX)3:1								
待机功耗（W）Standby	环牛变压器 Tor oidal transformer								
	6W	8W	9W	11W	12W	15W	16W	16W	23W
保护功能Protections	过载保护、短路保护、低压保护，(电池反接保险) Overload ,short circuit ,High & low voltage , battery reverse protections								
状态显示 Status display	LCD点阵屏 LCD dot matrix fine screen					LCD点阵屏+LED显示灯 LCD dot matrix fine screen + LED display			
						通过翻页键可以查看，AC电压，AC频率，PV电压，PV电流，输出电压，输出频率，电池电压，负载电流等 Through the page key, you can view the AC voltage, AC frequency, PV voltage, PV current, output voltage, output frequency, battery voltage, load current and other parameters.			
声音提示 Audible alarm	电池低电保护蜂鸣器长鸣Low battery protection-continuous beeping 电池低电蜂鸣器一秒一鸣Low battery protection-1 second beeping 过载蜂鸣器长鸣Overload-continuous beeping 过载小于30%蜂鸣器一秒一鸣,30S后关断输出，超载大于150%时300ms后关断输出 Overload less than 30%-1 second beeping and shutdown the output after 30 seconds; Overload more than 150%,shutdown the output after 3oo ms 机器故障蜂鸣器长鸣Malfunction-continuous beeping								
工作温度 Working Temperature	0-40°C								
储存温度 Storage Temperature	-15°C~45°C								
相对温度 Relative Temperature	-10°C~90°C无凝结（-10°C~90°C Non condensing）								
噪音Noise(dB)	<45dB								
尺寸Dimension L*W*H(mm)	300*144*213					385*190*382			
包装尺寸Packing Dimension L*W*H(mm)	390*225*318					470*260*420			
净重Weight(kg)	6.5KG	6.9KG	7.8KG	8.59KG	9.5KG	14.6KG	17.2KG	17.2KG	22KG

逆变器AL系列

SOLAR INVERTER AL SERIES

1000W~1600W

应用范围
Application

产品特性
Features

- 空载损耗小，低于同功率高频机的一半
  The no-load loss is small, less than half of the same power high-frequency machine
- 纯正弦波输出，可适应不同负载
  Pure sine wave output, adaptable to different loads
- 输出短路保护功能
  Output short circuit protection function
- 根据用户需要，可以调节多项参数
  According to user needs, can adjust a number of parameters
- 可选择带PWM太阳能控制器
  Optional with PWM solar controller
- 不带通讯
  without communication

AL系列
AL series

型号Model	AL 1312/24	AL 1512/24	AL 2024
额定输入电压Rated input voltage	220VAC（标准standard）/ 110VAC（定制customized）		
电压范围Voltage range	220V机型：154-264VAC±3V（正常模式Normal mode）185-264VAC±3V（UPS模式UPS mode） \110V机型：77-132VAC±3V（正常模式Normal mode）92-132VAC±3V（UPS模式UPS mode）		
频率范围Frequency range	50/60Hz±5%		
输出额定功率Output rated power	1000W	1200W	1600W
市电下输出电压 AC model output Voltage	市电下的输出电压跟输入电压一样 The output voltage under the mains is the same as the input voltage		
市电下输出频率 AC model outout frequency	市电下的输出频率跟输入频率一样 The output frequency under the mains is the same as the input frequency		
逆变下输出电压 Output voltage under inverter	220VAC±10%（110VAC±10%）		
逆变下输出频率 Output frequency under inverter	50HZ或60HZ±1%		
逆变下输出波形 Output waveform under inverter	纯正弦波Pure sine wave		
电池类型 Battery Type	外接铅酸电池或水电池或锂电池 External lead-acid battery or water battery or lithium battery		
电池电压 Battery voltage	12VDC/24VDC		
电池充电电压 battery charging voltage	13.7VDC/27.4VDC		
最大光伏阵列功率 Maximum photovoltaic array power	12V: 800W 24V: 1600W		
PV输入电压范围(PWM) PV input voltage range(PWM)	12V: PWM 15V-30VDC（定制可50VDC） 24V: PWM 30V-60VDC（定制可105VDC）		
最大光伏陈列开路电压 Maximum photovoltaic array open circuit voltage	12V: PWM 30VDC（定制可50VDC） 24V: PWM 60VDC（定制可105VDC）		
最佳Vmp工作范围 Optimal Vmp working range	12V: PWM 15V-20VDC 24V: PWM 30V-40VDC		
最大太阳能充电电流 Maximum Solar Charging Current	60A		
最大AC充电电流 Maximum AC charging current	35A / 17A	40A / 20A	30A
转换时间Transfer time	≤10ms（UPS模式）/≤20ms（INV模式）		
负载峰值比load peak ratio	(MAX)3:1		
待机功耗（W） Standby power consumption（W）	环牛变压器Toroidal Transformer 12V机器Machine：8W 24V机器Machine：16W		
保护功能 Protective function	市电下：输入过流无熔丝开关保护 Under mains power: input overcurrent non-fuse switch protection 逆变下：过载保护、短路保护、低压保护、电池反接保护（保险管） Under inverter: overload protection, short circuit protection, low voltage protection, battery reverse polarity protection (fuse)		
状态显示 Status Display	彩色段码屏加LED显示 Color segment code screen plus LED display 通过翻页键可以查看，AC电压，AC频率，PV电压，PV电流，输出电压，输出频率，电池电压，负载电流等参数。 You can view parameters such as AC voltage, AC frequency, PV voltage, PV current, output voltage, output frequency, battery voltage, and load current through the page turning key. LED显示市电，充电状态，逆变状态，故障状态 LED display mains power, charging status, inverter status, fault status		
声音提示Voice prompt	蜂鸣器根据故障代码不同，报警声音不同，用长短音区分 The buzzer has different alarm sounds according to different fault codes, which are distinguished by long and short sounds		
工作温度Operating temperature	0~40℃		
存放温度Storage temperature	—15℃~45℃		
机器尺寸 Size（L*W*H)mm	352*235*110mm		

逆变器ME系列

SOLAR INVERTER ME SERIES

800W~4000W

应用范围
Application

产品特性
Features

- 空载损耗小，低于同功率高频机的一半
  The no-load loss is small, less than half of the same power high-frequency machine
- 纯正弦波输出，可适应不同负载
  Pure sine wave output, adaptable to different loads
- 输出短路保护功能
  Output short circuit protection function
- 根据用户需要，可以调节多项参数
  According to user needs, can adjust a number of parameters
- 可选择带PWM/MPPT太阳能控制器
  Optional with PWM/MPPT solar controller
- 110V / 120 V输出
  110v/120v output Available

ME系列

AL series

型号Model	ME1012/24	ME1312/24	ME1512/24	ME2012/24/48	ME3024/48	ME5024/48
额定输入电压Rated input voltage	220VAC（标准standard）/ 110VAC（定制customized）					
电压范围Voltage range	220V机型：154-264VAC±3V（正常模式Normal mode）185-264VAC±3V（UPS模式UPS mode） \110V机型：77-132VAC±3V（正常模式Normal mode）92-132VAC±3V（UPS模式UPS mode）					
频率范围Frequency range	50/60Hz±5%					
输出额定功率Output rated power	800W	1000W	1200W	1600W	2400W	4000W
市电下输出电压 AC model output Voltage	市电下的输出电压跟输入电压一样 The output voltage under the mains is the same as the input voltage					
市电下输出频率 AC model outout frequency	市电下的输出频率跟输入频率一样 The output frequency under the mains is the same as the input frequency					
逆变下输出电压 Output voltage under inverter	220VAC±10%（110VAC±10%）					
逆变下输出频率 Output frequency under inverter	50HZ或60HZ±1%					
逆变下输出波形 Output waveform under inverter	纯正弦波Pure sine wave					
电池类型 Battery Type	外接铅酸电池或水电池或锂电池 External lead-acid battery or water battery or lithium battery					
电池电压 Battery voltage	12VDC/24VDC/48VDC					
电池充电电压 battery charging voltage	13.7VDC/27.4VDC/54.8VDC					
最大光伏阵列功率 Maximum photovoltaic array power	12V: 400W 24V: 800W			12V: 800W 24V: 1600W 48V:3200W		
PV输入电压范围(PWM) PV input voltage range(PWM)	12V: PWM 15V-50VDC 24V: PWM 30V-60VDC （不带内置MPPT）			12V: MPPT 15V-150VDC / PWM 15V-50VDC 24V: MPPT 30V-150VDC / PWM 30V-105VDC 48V: MPPT 60V-150VDC / PWM 60V-105VDC		
最大光伏陈列开路电压 Maximum photovoltaic array open circuit voltage	12V: PWM 30VDC 24V: PWM 60VDC			12V: MPPT 150VDC / PWM 50VDC 24V: MPPT 150VDC / PWM 105VDC 48V: MPPT 150VDC / PWM 105VDC		
最佳Vmp工作范围 Optimal Vmp working range	12V: PWM 15-20VDC 24V: PWM 30-40VDC			12V: MPPT 15-105VDC / PWM 15-20VDC 24V: MPPT 30-105VDC / PWM 30-40VDC 48V: MPPT 60-105VDC / PWM 60-80VDC		
最大太阳能充电电流 Maximum Solar Charging Current	30A			60A		
最大AC充电电流 Maximum AC charging current	30A / 13A	35A / 17A	40A / 20A	60A / 30A / 16A	60A / 25A	80A / 40A
转换时间Transfer time	≤10ms（UPS模式）/≤20ms（INV模式）					
负载峰值比load peak ratio	(MAX)3:1					
待机功耗（W） Standby power consumption（W）	环牛变压器Toroidal Transformer 12V机器Machine：8W 24V机器Machine：16W 48V机器Machine：32W					
保护功能 Protective function	市电下：输入过流无熔丝开关保护 Under mains power: input overcurrent non-fuse switch protection			市电下：输入过流空气开关保护 Under mains power: input overcurrent air switch protection		
	逆变下：过载保护、短路保护、低压保护、电池反接保护（保险管） Under inverter: overload protection, short circuit protection, low voltage protection, battery reverse polarity protection（fuse）					
状态显示 Status Display	彩色段码屏加LED显示 Color segment code screen plus LED display 通过翻页键可以查看，AC电压，AC频率，PV电压，PV电流，输出电压，输出频率，电池电压，负载电流等参数。 You can view parameters such as AC voltage, AC frequency, PV voltage, PV current, output voltage, output frequency, battery voltage, and load current through the page turning key. LED显示市电，充电状态，逆变状态，故障状态 LED display mains power, charging status, inverter status, fault status					
声音提示Voice prompt	蜂鸣器根据故障代码不同，报警声音不同，用长短音区分 The buzzer has different alarm sounds according to different fault codes, which are distinguished by long and short sounds					
工作温度Operating temperature	-10°C~50°C					
存放温度Storage temperature	—15°C~45°C					
机器尺寸 Size（L*W*H)mm	325*263*128mm			360*316*298mm		

太阳能系统SP系列

SOLAR SYSTEM SP SERIES

1000W-2000W

应用范围
Application

产品特性
Features

- 纯正弦波输出
  Pure sine wave output
- 一体式光伏发电储能系统
  Integrated photovoltaic power generation energy storage system
- 带载能力强
  Superior AC loading capacity
- 内置太阳能控制器和免维护电池
  Built-in Solar Charge&maintenance-free battery
- 充电效率高
  High-efficient Charging
- 便携式和可移动的
  Portable & Removable
- 可选内置铅酸 / 内置锂电池
  Inbuilt Lead-acid battery / Inbuilt Lithium battery

SP系列
SP Series

型号Model	SP1012-100P	SP1012-170LP	SP1524-100M	SP1524-170LM	SP2024-100M	SP2024-170LM
电池电压 Battery Voltage	12V		24V			
内置的电池规格 In-built battery specification	铅酸100AH/12V	锂电170AH/12.8V	铅酸100AH/12V*2	锂电170AH/25.6V	铅酸100AH/12V*2	锂电170AH/25.6V
额定功率 Rated power	1000W	1000W	1500W	1500W	2000W	2000W
输出电压 Output Voltage	110VAC/220VAC					
输出频率 Output Frequency	50/60Hz					
输出波形 Output Waveform	纯正弦波 Pure Sine Wave					
额定电压 Rated Voltage	220VAC——*(* means an optional function)					
充电电流 Charge Current	12A (10-20A可调)	20A	12A (10-18A可调)	18A	20A (15-30A可调)	30A
最大光伏电压 Maximum Photovoltaic Voltage(VDC)	≤50V		≤145V			
充电电压 Charge Voltage (VDC)	13.7V		27.4V			
额定充电电流 Rated Charge Current(A)	(PWM)30A(可选60A)		(MPPT)30A (可选60A)			
最大功率 Maximum Power(Wp)	360Wp(720Wp)		800Wp(1600Wp)			
过充保护电压 Voltage of overcharge protection(VDC)	14.2V		28.4V			
过充恢复电压 Voltage of overcharge recovery(VDC)	14.0V		28.0V			
浮充电压 Voltage of floating charge(VDC)	13.7V		27.4V			
高压保护电压 Voltage of high-voltage protection(VDC)	16V		32V			
高压恢复电压 Voltage of high-voltage recovery(VDC)	15.2V		30.4V			
低压恢复电压 Voltage of low-voltage recovery(VDC)	13V		26V			
低压保护电压 Voltage of low-voltage protection(VDC)	11V		22V			
5VDC USB输出接口 5VDC USB Output Port	2units/MAX 2A					
12VDC输出接口 12VDC Output Port	2 DC Ports (MAX 5A)					
排风扇启动温度 Starting Temperature of the exhaust fan	>45℃					
操作环境温度 Ambient Temperature for operation	0-40℃					
储存环境温度 Ambient Temperature for storage	-25-55℃					
操作/储存条件 Operation/Storage Conditions	0-90%(no condensation)					
净重(公斤)Net weight (KG)	45/48	/	85/90	/	86/91	/
机器尺寸 size (L*W*H)mm	423*260*453		430*380*534			

控制器ML系列

MPPT ML SERIES

40A-100A

应用范围
Application

产品特性
Features

- 可选支持WIFI /GPRS
  Can support WIFI / GPRS
- 12/24/36/48V自动适应
  12/24/36/48V adaptive
- 三段式智能充电
  Three-stage smart charging
- 可参数可调节
  Adjustable parameters by pressing buttons
- 可接铅酸电池/ 锂电池/水电池等
  It can connect Lead acid batter/lithium battery/waterbattery

ML系列

ML series

型号Model		ML40415	ML60415	ML80415	ML100415	ML40825	ML60825	ML80825	ML100825
系统电压 System voltage		12V/24V/36V/48V（Adaptive）自动识别				96V			
额定电流Rated current		40A	60A	80A	100A	40A	60A	80A	100A
充电模式 Charging mode		MPPT最大功率点追踪MPPT maximum power point tracking							
适用电池类型 Applicable battery type		可接铅酸电池/ 锂电池/水电池等 It can connect Lead acid batter/lithium battery/waterbattery							
充电方式 Charging method		三阶段：恒流，恒压，浮充Three stages: constant cairent rent foltage, floating charge							
光伏输入最大开路电压（VOC） PV input maximum open circuit voltage（VOC）		DC150V				DC250V			
启动时间 Starting time		≤10s							
Dynamic response recovery time		≤500us							
静态功耗Static power		≤4W		≤8W		≤4W		≤8W	
跟踪效率 MPPT Trackingefficiency		≥99.5%							
最大转换效率Max efficiency		≥98%							
控制器系统识别工作电压范围 System identified voltage range		8~64V				72～128V			
最大功率点 工作电压范围 Maximum power point operating voltage range	12V	20~150V				128~250V			
	24V	36~150V							
	36V	48~150V							
	48V	64~150V							
额定充电功率 Rated charging power	12V	540W	800W	1040W	1300W	/			
	24V	1080W	1600W	2080W	2600W				
	36V	1620W	2400W	3120W	3900W				
	48V	2160W	3200W	4160W	5200W				
	96V	/				4160W	6240W	8320W	10400W
负载电压 Load voltage		同蓄电池电压Same as Battery Voltage				/			
额定负载电流Rated load current		40A							
Load控制方式Load control method		常开常关模式/时控模式/光控模式 Normally ON/OFF mode/time control mode/light control mode							
负载欠压保护 Load undervoltage protection		10.5V*N（N stands for batteries number)Parameters can be adjustable默认10.5V*N（N为电池数）可调节参数							
散热方式 Cooling		风冷 Air Cooling							
显示方式 Display		高清LCD背光显示 HD LCD backlight display							
保护功能Protections		输入输出过欠压保护、输入输出防反接保护、机器过温保护、负载过流保护 Input and output over&low-voltage protection, input and output anti-reverse protection, over-temperature protection, load over-current protection							
温度补偿系数Temperature compensation coefficient		-3mV/°C/2V							
工作温度 Working temperature		-20℃～+50℃							
储存温度 Storage temperature		-40℃~+70°C							
噪音Noise（dB）		≤50dB							
湿度Humidity		0～90%RH							
海拔高度 Working altitude		0～3000M							
机身尺寸（mm）Dimension, LxWxH		219*260*110		275*348*109		219*260*110		275*348*109	
净重（KG）Net Weight （KG）		2.8KG		4.6KG	5.2KG	2.8KG		4.6KG	5.2KG
推荐接线Suggested wire specification		7AWG/10mm²	6AWG/16mm²	4AWG/25mm²	2AWG/35mm²	7AWG/10mm²	6AWG/16mm²	4AWG/25mm²	2AWG/35mm²

GSS系列三相逆变器

INVERTER GSS SERIES

16KVA-160KVA

应用范围
Application

产品特性
Features

- **内置输出隔离变压器**
  Built-in output isolation transformer
- **适应各种负载条件**
  Adapt to various load conditions
- **数字化控制实现在线双转换**
  Digital control realizes online double conversion
- **无市电直流启动**
  No mains DC start
- **可至多并机4台运作**
  Up to 4 units can be operated in parallel
- **丰富的通讯接口**
  Multiple communication interface
- **正面维护设计**
  Front maintenance design
- **工业化设计应用于各种恶劣条件**
  Industrial design for a variety of harsh conditions

GSS系列
GSS series

型号Model	GSS50360	GSS60360	GSS80360	GSS100360	GSS120360	GSS160360
容量CAPACITY	50KVA/40KW	60KVA/48KW	80KVA/64KW	100KVA/80KW	120KVA/96KW	160KVA/120KW
输入额定电压 Rated voltage	3 x 38ovAc/40ovAC(3相+N线)(3-phase + N line)					
电压范围Voltage Range	285VAC ~ 475VAC					
频率范围Frequency Range	50/60 Hz ±10 %					
输出电压Output Voltage	3 x 380VAC/400VAC(3-phase + N line)					
电压稳定性Voltage stability	steady state:±1%稳态:±1%典型值 transient: ±5% (load change 100-0-100%) 瞬态:±5%典型值(负载变化100-0-100%)					
频率同步范围Frequency synchronization range	Mains lost ±0.1 Hz Mains lost ±0.1 Hz					
频率跟踪速率Frequency tracking rate	±1 Hz/S					
输出波形WaveForm	正弦波pure sine wave					
总谐波total harmonics(THDv)	<2%(Linear load线性负载) <5%(nonlinear load非线性负载)					
相位不平衡度Phase unbalance	120°±1%(balance load平衡负载) 120° ±2%(5o% un-balance load不平衡负载)					
动态调整时间Dynamically adjust time	<60ms恢复至都定值90%return to 90% of rated value					
过载能力overload capacity	110%~ 150% for 10min-1min; 150% ~ >160%for 1min~200ms; >160% for 200ms					
峰值因素crest factor	3:1					
负载功率因素范围 Load power factor range	0.6~1 (capacitive or inductive容性或感性)					
不平衡输出电压100%不平衡负载Unbalanced output voltage @100% unbalanced load	<1%					
保护或限制 protect or restrict	极重过载;短路;电压有效值限制;冲击电流;峰值电压限制Extremely heavy overload; short circuit,voltage ms limit inrush current peak voltage limit					
整机效率Overall efficiency						
在线模式 AC MODE	91%	92%				
电池模式 AC MODE	92%	93%				
旁路类型BY PASS TYPE	static switch静态开关					
旁路电压BY PASS VOLTAGE	3 x 380VAC/400VAC(3相+N线)					
旁路频率FREQUENCY	50/60 Hz					
控制方式CONTROLLER	microprocessor微处理器					
逆变到旁路切换时间Inverter to Bypass Transfer Time	同步模式Sync mode: Oms ,非同步模式Asynchronous mode: 10ms					
过载能力overload capacity	150%~ 180%1h~30s; 180% ~ >200% 30s~200ms; 200ms for >200%					
切换到旁路switch to bypass	Overload 160%: switch immediately 过载160%:立即切换					
切回逆变switch back to contravariance	报警清除后自动切换Automatically switch after alarm is cleared					
维修旁路Maintenance bypass						
类型Type	不间断 Uninterrupted					
电压VOLTAGE	3 x 400v (3 phase + N line)					
频率FREQUENCY	50/60 Hz					
电池&充电Charging & batteries						
电池节数Number of batteries(12v)	29/30/31/32 (Adjust)					
充电模式charging method	可选:恒压充电/恒流充电Optional: constant voltage charging/constant current charging					
充电电流recharging current	默认20A, 最大40ADefault 10A, Max 40A					
电池类型Battery Type	密封铅酸电池,镍铬电池,锂电池Gel battery, Sealed lead-acid battery, nickel-chromium battery,lithium battery					