

■ 离网太阳能发电系统 | Off-grid Solar Power System

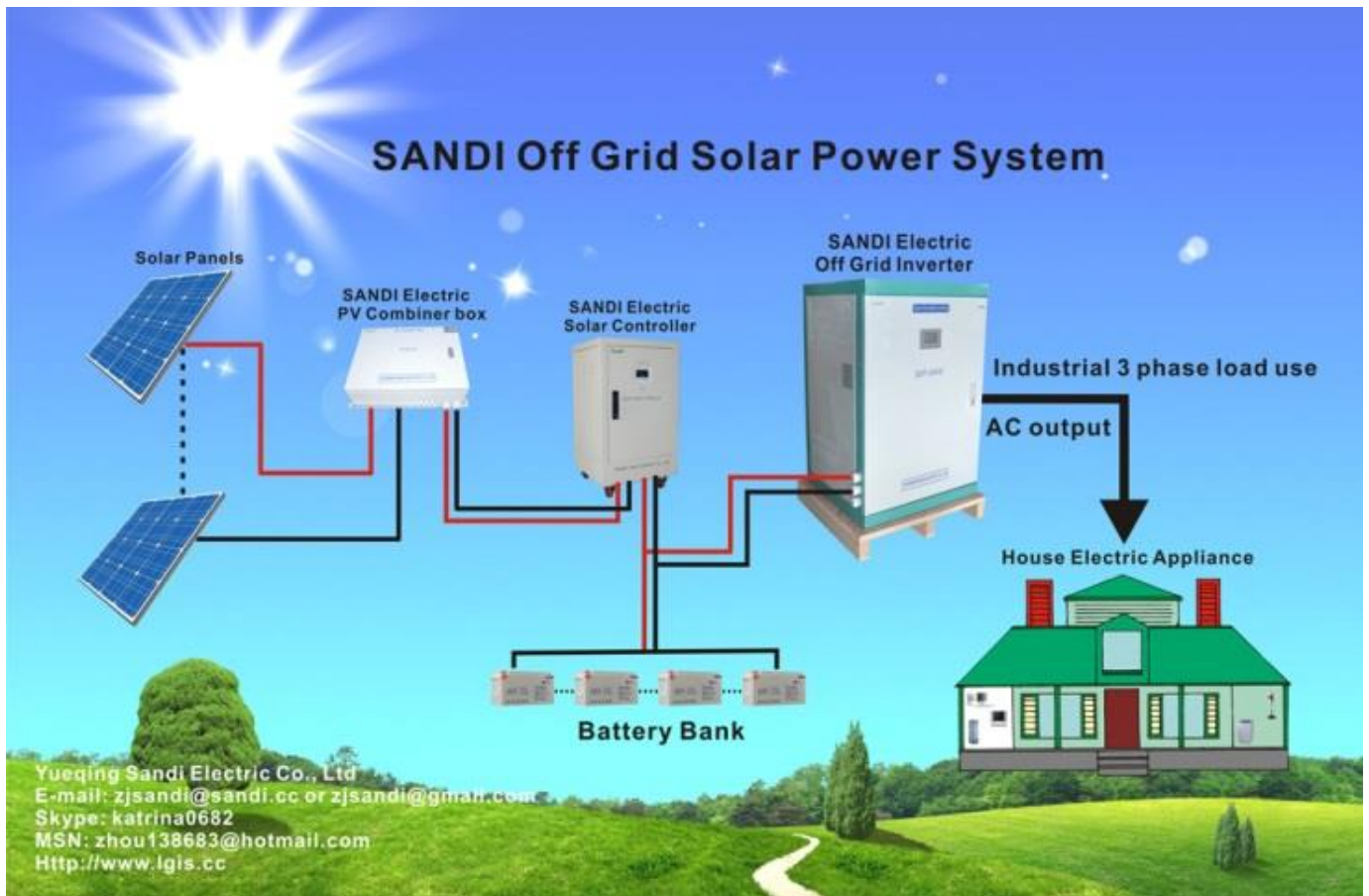
离网太阳能发电系统一般是由太阳能电池板、光伏汇流箱、太阳能充电控制器、蓄电池、离网逆变器等部件组成。太阳光照通过太阳能电池板转换为电能，通过控制器给蓄电池充电，再通过离网逆变器将蓄电池的直流电转化为交流电，供用电设备使用。

Off-grid Solar power generation system including solar panel array, PV Combiner box, solar charge controller, battery group, Off-grid inverter, etc. In the sunshine, the solar panel array convert solar energy to DC energy and charge to the battery group by the charge controller. And convert the DC to AC for the loading through off grid inverter.

■ 应用领域 | Application area

- ◆ 用于边远无电地区如高原、海岛、牧区、边防哨所等军民生活用电。
For desolate area like mountain, island, pasturing area, etc.
- ◆ 用于交通领域如航标灯、交通/铁路信号灯、交通警示/标志灯、路灯、高空障碍灯、高速公路/铁路无线电话亭、无人值守道班供电等。
For transportation system like beacon light, traffic light, street light, etc.
- ◆ 用于通讯/通信领域：太阳能无人值守微波中继站、光缆维护站等。
For communication system: unattached operation microwave middle station, optical cable maintenance station, etc.
- ◆ 灯具电源：如庭院灯、路灯等。
For lighting power like garden lamp, street light, etc.
- ◆ 光伏电站：独立光伏电站、风光(柴)互补电站、各种大型停车场充电站、家庭小型发电站、工厂小型发电站等。
For photovoltaic power station, wind-solar power station, park charging station, family power house, factory power station, etc.
- ◆ 太阳能建筑：将太阳能发电与建筑材料相结合，使得未来的大型建筑实现电力自给，是未来一大发展方向。
For solar building: has good business future.
- ◆ 政府形象工程
For the new technology application project.

■ 系统原理图 | System Schematic



- 三迪系列太阳能充电控制器是一个智能型光伏控制器专为离网光伏发电系统而设计的。LCD液晶显示屏，操作方便等良好的运行性能，并且还能自动地控制太阳能电池的断开和连接根据电池电压的变化。该控制器使得充分利用太阳能电池的资源，并保持电池安全可靠。
- Sandi Series Solar Charge Controller is a smart PV controller designed for off-grid PV power system. It has good running performance with LCD display and convenient operation. And also automatically control solar cell cut or connect ordinarily according to the change of battery voltage. This controller makes a full advantage of solar cell resource and also keep battery safe and reliable.
- 为了满足不同光伏电站的需求，有24V，48V，96V，120V，192V，220V，240V，360V，480V和其它的型号的电压，根据不同离网光伏电站系统项目的蓄电池电压。
- To meet different power stations' need, there are 24V、48V、96V、120V、192V、220V、240V、360V、480V and other normal series voltage level base on different battery voltage of off-grid PV power station system project.

性能特点 | PERFORMANCE FEATURES:

- ◆ 采用PWM阶梯式逐级限流充电方法，依据蓄电池组端电压的变化趋势自动控制多路太阳能电池组方阵的依次接通或切断。
Adopt PWM multistep sequential limiting current charge method, auto control multiple solar array connection or shut off orderly according to the battery group voltage change tendency.
- ◆ 采用多阵列的多路充电控制回路，每路均配有断路器开关，相互独立，操作方便，使用安全可靠。
Adopt multiple-circuit charging-control circuit and individual killer switch on each circuit.
- ◆ 具有蓄电池过充、电子短路、防反接保护、防止在夜间蓄电池向太阳能电池板反充放电等全自动保护功能。
With auto protection function of over charge, electronic short circuit, anti-reverse protection. Prevent the battery group reverse charging to the solar panel array at night.
- ◆ 大屏LCD显示。太阳能电池板、蓄电池、控制器工作状态一目了然（太阳能电池板电压、电流、功率显示，蓄电池电压、充电电流、充电功率显示）。
Big intuitionistic LCD screen shows the working status of solar panels, battery and controller. (the voltage, current, power of solar energy panel and battery)
- ◆ 功率开关驱动电路和采样电路电气完全隔离，控制信号采用光耦隔离传输，使之具备极高的抗干扰能力和稳定性。
Power switch driving circuit is completely isolated from sampling circuit. The control signals is transmitted by opto isolation, with super-high disturbance rejection and stability.
- ◆ 控制器内部设有防雷器。把窜入太阳能电池板的瞬时过电压限制在设备或系统所能承受的电压范围内，或将强大的雷电流泄流入地，保护设备不受雷电冲击而损坏。
There are lightning protection device inside the controller. Limit instantaneous overvoltage which entered into solar panels under a level which the system can withstand; or unload the strong lightning current to the ground. To protect the equipment from lightning surge.
- ◆ 所有控制全部采用工业级芯片，能在寒冷、高温、潮湿环境正常运行。
Adopts the industrial-grade chips for all control, which can work under the cold, hot, humid conditions.
- ◆ 温度补偿功能。可根据各种类型蓄电池受温度影响的不同进行温度补偿。
Temperature compensation function. Compensate the temperature according different battery type.
- ◆ RS-232、RS-485、USB、GPRS、以太网等多种通讯方式最大化地满足不同场合的需求。
Fixable communication solution with RS-232, RS-485,USB,GPRS,Etherner,etc.

技术参数 | 24V 系列 Technical Parameters of 24V Series

型号 Model	SDC24V-50A	SDC24V-80A	SDC24V-100A	SDC24V-120A
配用蓄电池组电压 Battery group rated voltage	24V	24V	24V	24V
最大太阳能电池板开路电压 Max. PV open circuit voltage	60V	60V	60V	60V
太阳能电池板额定电流 PV Rated charge current	50A	80A	100A	120A
太阳能电池板最大功率 Maximum power of solar panel	1200W	1920W	2400W	2880W
太阳能电池板输入路数 Input PV module array number	1	1	1	1
功能 Function	自动停止充电, 自动恢复充电, 极性反接保护, 短路保护, 过流保护, 过热保护 Auto stop charge, auto recharge voltage; Protection: connecting contrary, over current, short circuit, over heat etc.			
显示 Display mode	液晶显示 LCD			
显示内容 Display content	太阳能板电压、太阳能板电流、太阳能板功率、蓄电池电压、充电电流 solar panel voltage, solar panel current, solar panel power, battery voltage, charge current			
浮充电压 (可调) Floating Charge Voltage (adjustable)	27.6V	27.6V	27.6V	27.6V
停止充电电压 Stop charge voltage	30V±1	30V±1	30V±1	30V±1
恢复充电电压 Recharge voltage	27V±1	27V±1	27V±1	27V±1
太阳能板与蓄电池之间的压降 Voltage drop between PV and battery	1.5V			
最大自耗电 Max itself power consumption	100mA-150mA			
工作温度 Work environment temperature	-30-60°C			
相对湿度 Relative humidity	< 90% 不结露 < 90% No condensation			
海拔高度 Applicable altitude	< 3000m (超过 3000 米需降额使用) The rated power should be reduced when it is higher than 2000m			
噪音 (1m) Noise (1m)	< 40dB			
防护等级 Degree of protection	IP20 (室内 Indoor)			
制冷方式 Cooling method	强制风冷 Forced air cooling			
*远程通讯 (可选) *Communication interface (optional)	RS485/USB/GPRS/Ethernet			
*温度补偿 (可选) *Temperature compensation(optional)	-4mv/°C/2V, -35°C~+80°C, 精度 Accuracy:±1°C			
产品尺寸 Product size (mm)	395*320*170	395*320*170	395*320*170	395*320*170
重量 Weight (Kg)	7Kg	7Kg	7Kg	7Kg

技术参数 | 48V 系列 Technical Parameters of 48V Series

型号 Model	SDC48V-30A	SDC48V-50A	SDC48V-60A	SDC48V-80A
配用蓄电池组电压 Battery group rated voltage	48V	48V	48V	48V
最大太阳能电池板开路电压 Max. PV open circuit voltage	100V	100V	100V	100V
太阳能电池板额定电流 PV Rated charge current	30A	50A	60A	80A
太阳能电池板最大功率 Maximum power of solar panel	1.44KW	2.4KW	2.88KW	3.84KW
太阳能电池板输入路数 Input PV module array number	1	1	1	1 / 2
功能 Function	自动停止充电，自动恢复充电，极性反接保护，短路保护，过流保护，过热保护 Auto stop charge, auto recharge voltage; Protection: connecting contrary, over current, short circuit, over heat etc.			
显示 Display mode	液晶显示 LCD			
显示内容 Display content	太阳能板电压、太阳能板电流、太阳能板功率、蓄电池电压、充电电流 solar panel voltage, solar panel current, solar panel power, battery voltage, charge current			
浮充电压 (可调) Floating Charge Voltage (adjustable)	55.2V	55.2V	55.2V	55.2V
停止充电电压 Stop charge voltage	58V±2	58V±2	58V±2	58V±2
恢复充电电压 Recharge voltage	54V±2	54V±2	54V±2,	54V±2
太阳能板与蓄电池之间的压降 Voltage drop between PV and battery	1.5V			
最大自耗电 Max itself power consumption	100mA-150mA			
工作温度 Work environment temperature	-30-60°C			
相对湿度 Relative humidity	< 90% 不结露 < 90% No condensation			
海拔高度 Applicable altitude	< 3000m (超过 3000 米需降额使用) The rated power should be reduced when it is higher than 2000m			
噪音 (1m) Noise (1m)	< 40dB			
防护等级 Degree of protection	IP20 (室内 Indoor)			
制冷方式 Cooling method	强制风冷 Forced air cooling			
*远程通讯 (可选) *Communication interface (optional)	RS485/USB/GPRS/Ethernet			
*温度补偿 (可选) *Temperature compensation(optional)	-4mv/°C/2V,-35°C~+80°C, 精度 Accuracy:±1°C			
产品尺寸 Product size (mm)	520*430*200mm			
重量 Weight	8Kg		10Kg	

技术参数 | 48V 系列 Technical Parameters of 48V Series

型号 Model	SDC48V-100A	SDC48V-150A	SDC48V-160A	SDC48V-200A
配用蓄电池组电压 Battery group rated voltage	48V	48V	48V	48V
最大太阳能电池板开路电压 Max. PV open circuit voltage range	100V	100V	100V	100V
太阳能电池板额定电流 PV Rated current	100A	150A	160A	200A
太阳能电池板最大功率 Maximum power of solar panels	4.8KW	7.2KW	7.68KW	9.6KW
太阳能电池板输入路数 Input PV module array number	1 / 2	2 / 3	2 / 3	2 / 4
功能 Function	自动停止充电, 自动恢复充电, 极性反接保护, 短路保护, 过流保护, 过热保护 Auto stop charge, auto recharge voltage; Protection: connecting contrary, over current, short circuit, over heat etc.			
显示 Display mode	液晶显示 LCD			
显示内容 Display content	太阳能板电压、太阳能板电流、太阳能板功率、蓄电池电压、充电电流 solar panel voltage, solar panel current, solar panel power, battery voltage, charge current			
浮充电压 (可调) Floating Charge Voltage (adjustable)	55.2V	55.2V	55.2V	55.2V
停止充电电压 Stop charge voltage	58V±2	58V±2	58V±2	58V±2
恢复充电电压 Recharge voltage	54V±2	54V±2	54V±2	54V±2
太阳能板与蓄电池之间的压降 Voltage drop between PV and battery	1.5V			
最大自耗电 Max itself power consumption	100mA-150mA			
工作温度 Work environment temperature	-30-60°C			
相对湿度 Relative humidity	< 90% 不结露 < 90% No condensation			
海拔高度 Applicable altitude	< 3000m			
噪音 (1m) Noise (1m)	< 40dB			
防护等级 Degree of protection	IP20 (室内 Indoor)			
制冷方式 Cooling method	强制风冷 Forced air cooling			
*远程通讯 (可选) *Communication interface (optional)	RS485/USB/GPRS/Ethernet			
*温度补偿 (可选) *Temperature compensation(optional)	-4mv/°C/2V,-35°C~+80°C, 精度 Accuracy:±1°C			
产品尺寸 Product size (MM)	530*500*260	585*585*980	585*585*980	585*585*980
重量 Weight (KG)	20Kg	65Kg	65Kg	75Kg

技术参数 | 96V 系列 Technical Parameters of 96V Series

型号 Model	SDC96V-30A	SDC96V-50A	SDC96V-100A	SDC96V-200A
配用蓄电池组电压 Battery group rated voltage	96Vdc	96Vdc	96Vdc	96Vdc
最大太阳能电池板开路电压 Max. PV open circuit voltage	176V	176V	176V	176V
太阳能电池板额定电流 PV Rated current	30A	50A	100A	200A
太阳能电池板最大功率 Maximum power of solar panels	2880Wp	4800Wp	9600Wp	19200Wp
太阳能电池板输入路数 Input PV module array number	1	1	1/2	1/2
功能 Function	自动停止充电, 自动恢复充电, 极性反接保护, 短路保护, 过流保护, 过热保护 Auto stop charge, auto recharge voltage; Protection: connecting contrary, over current, short circuit, over heat etc.			
显示 Display mode	液晶显示 LCD			
显示内容 Display content	太阳能板电压、太阳能板电流、太阳能板功率、蓄电池电压、充电电流 solar panel voltage, solar panel current, solar panel power, battery voltage, charge current			
浮充电压 (可调) Floating Charge Voltage (adjustable)	110Vdc	110Vdc	110Vdc	110Vdc
停止充电电压 Stop charge voltage	116Vdc	116Vdc	116Vdc	116Vdc
恢复充电电压 Recharge voltage	108V	108V	108V	108V
太阳能板与蓄电池之间的压降 Voltage drop between PV and battery	1.5V			
最大自耗电 Max itself power consumption	100mA-150mA			
工作温度 Work environment temperature	-30-60°C			
相对湿度 Relative humidity	< 90% 不结露 < 90% No condensation			
海拔高度 Applicable altitude	< 3000m (超过 3000 米需降额使用) The rated power should be reduced when it is higher than 2000m			
噪音 (1m) Noise (1m)	< 40dB			
防护等级 Degree of protection	IP20 (室内 Indoor)			
制冷方式 Cooling method	强制风冷 Forced air cooling			
*远程通讯 (可选) *Communication interface (optional)	RS485/USB/GPRS/Ethernet			
*温度补偿 (可选) *Temperature compensation(optional)	-4mv/°C/2V, -35°C~+80°C, 精度 Accuracy:±1°C			
产品尺寸 Product size (mm)	520*430*200mm	760*600*180mm	585*585*980mm	
重量 Weight	10Kg	26Kg	55Kg	

技术参数 | 120V 系列 Technical Parameters of 120V Series

型号 Model	SDC120V-30A	SDC120V-50A	SDC120V-60A	SDC120V-80A
配用蓄电池组电压 Battery group rated voltage	120Vdc	120Vdc	120Vdc	120Vdc
最大太阳能电池板开路电压 Max. PV open circuit voltage	220V	220V	220V	220V
太阳能电池板额定电流 PV Rated current	30A	50A	60A	80A
太阳能电池板最大功率 Maximum power of solar panels	3600Wp	6000Wp	7200Wp	9600Wp
太阳能电池板输入路数 Input PV module array number	1	1	1/2	1/2
功能 Function	自动停止充电, 自动恢复充电, 极性反接保护, 短路保护, 过流保护, 过热保护 Auto stop charge, auto recharge voltage; Protection: connecting contrary, over current, short circuit, over heat etc.			
显示 Display mode	液晶显示 LCD			
显示内容 Display content	太阳能板电压、太阳能板电流、太阳能板功率、蓄电池电压、充电电流 solar panel voltage, solar panel current, solar panel power, battery voltage, charge current			
浮充电压 (可调) Floating Charge Voltage (adjustable)	138Vdc	138Vdc	138Vdc	138Vdc
停止充电电压 Stop charge voltage	150Vdc	150Vdc	150Vdc	150Vdc
恢复充电电压 Recharge voltage	135V	135V	135V	135V
太阳能板与蓄电池之间的压降 Voltage drop between PV and battery	1.5V			
最大自耗电 Max itself power consumption	100mA-150mA			
工作温度 Work environment temperature	-30-60°C			
相对湿度 Relative humidity	< 90% 不结露 < 90% No condensation			
海拔高度 Applicable altitude	< 3000m (超过 3000 米需降额使用) The rated power should be reduced when it is higher than 2000m			
噪音 (1m) Noise (1m)	< 40dB			
防护等级 Degree of protection	IP20 (室内 Indoor)			
制冷方式 Cooling method	强制风冷 Forced air cooling			
*远程通讯 (可选) *Communication interface (optional)	RS485/USB/GPRS/Ethernet			
*温度补偿 (可选) *Temperature compensation(optional)	-4mv/°C/2V, -35°C~+80°C, 精度 Accuracy:±1°C			
产品尺寸 Product size (mm)	520*430*200mm			
重量 Weight	10Kg			

型号 Model	SDC120V-100A	SDC120V-150A	SDC120V-200A	SDC120V-250A
配用蓄电池组电压 Battery group rated voltage	120Vdc	120Vdc	120Vdc	120Vdc
最大太阳能电池板开路电压 Max. PV open circuit voltage	220V	220V	220V	220V
太阳能电池板额定电流 PV Rated current	100A	150A	200A	250A
太阳能电池板最大功率 Maximum power of solar panels	12KW	18KW	24KW	30KW
太阳能电池板输入路数 Input PV module array number	2	3	4	5
功能 Function	自动停止充电，自动恢复充电，极性反接保护，短路保护，过流保护，过热保护 Auto stop charge, auto recharge voltage; Protection: connecting contrary, over current, short circuit, over heat etc.			
显示 Display mode	液晶显示 LCD			
显示内容 Display content	太阳能板电压、太阳能板电流、太阳能板功率、蓄电池电压、充电电流 solar panel voltage, solar panel current, solar panel power, battery voltage, charge current			
浮充电压 (可调) Floating Charge Voltage (adjustable)	138Vdc	138Vdc	138Vdc	138Vdc
停止充电电压 Stop charge voltage	150Vdc	150Vdc	150Vdc	150Vdc
恢复充电电压 Recharge voltage	135V	135V	135V	135V
太阳能板与蓄电池之间的压降 Voltage drop between PV and battery	1.5V			
最大自耗电 Max itself power consumption	100mA-150mA			
工作温度 Work environment temperature	-30-60°C			
相对湿度 Relative humidity	< 90% 不结露 < 90% No condensation			
海拔高度 Applicable altitude	< 3000m (超过 3000 米需降额使用) The rated power should be reduced when it is higher than 2000m			
噪音 (1m) Noise (1m)	< 40dB			
防护等级 Degree of protection	IP20 (室内 Indoor)			
制冷方式 Cooling method	强制风冷 Forced air cooling			
*远程通讯 (可选) *Communication interface (optional)	RS485/USB/GPRS/Ethernet			
*温度补偿 (可选) *Temperature compensation(optional)	-4mv/°C/2V, -35°C~+80°C, 精度 Accuracy:±1°C			
产品尺寸 Product size (mm)	530*500*2600	690*590*1300	690*590*1300	700*620*1620
重量 Weight	20Kg	115Kg	120Kg	145Kg

技术参数 | 192V 系列 Technical Parameters of 192V Series

型号 Model	SDC192V-30A	SDC192V-50A	SDC192V-60A	SDC192V-80A
配用蓄电池组电压 Battery group rated voltage	192Vdc	192Vdc	192Vdc	192Vdc
太阳能电池板额定电流 PV Rated current	30A	50A	60A	80A
最大太阳能电池板开路电压 Max. PV open circuit voltage	352V	352V	352V	352V
太阳能电池板最大功率 Maximum power of solar panels	5760Wp	9600Wp	11520Wp	15360Wp
太阳能电池板输入路数 Input PV module array number	1	1	1 / 2	2
功能 Function	自动停止充电, 自动恢复充电, 极性反接保护, 短路保护, 过流保护, 过热保护 Auto stop charge, auto recharge voltage; Protection: connecting contrary, over current, short circuit, over heat etc.			
显示 Display mode	液晶显示 LCD			
显示内容 Display content	太阳能板电压、太阳能板电流、太阳能板功率、蓄电池电压、充电电流 solar panel voltage, solar panel current, solar panel power, battery voltage, charge current			
浮充电压 (可调) Floating Charge Voltage (adjustable)	220Vdc	220Vdc	220Vdc	220Vdc
停止充电电压 Stop charge voltage	232Vdc	232Vdc	232Vdc	232Vdc
恢复充电电压 Recharge voltage	216Vdc	216Vdc	216Vdc	216Vdc
太阳能板与蓄电池之间的压降 Voltage drop between PV and battery	1.5V			
最大自耗电 Max itself power consumption	100mA-150mA			
工作温度 Work environment temperature	-30-60°C			
相对湿度 Relative humidity	< 90% 不结露 < 90% No condensation			
海拔高度 Applicable altitude	< 3000m (超过 3000 米需降额使用) The rated power should be reduced when it is higher than 2000m			
噪音 (1m) Noise (1m)	< 40dB			
防护等级 Degree of protection	IP20 (室内 Indoor)			
制冷方式 Cooling method	强制风冷 Forced air cooling			
*远程通讯 (可选) *Communication interface (optional)	RS485/USB/GPRS/Ethernet			
*温度补偿 (可选) *Temperature compensation(optional)	-4mv/°C/2V, -35°C~+80°C, 精度 Accuracy:±1°C			
产品尺寸 Product size (mm)	520*430*200mm			
重量 Weight	12Kg			

型号 Model	SDC192V-100A	SDC192V-150A	SDC192V-200A	SDC192V-250A
配用蓄电池组电压 Battery group rated voltage	192Vdc	192Vdc	192Vdc	192Vdc
太阳能电池板额定电流 PV Rated current	100A	150A	200A	300A
最大太阳能电池板开路电压 Max. PV open circuit voltage	352V	352V	352V	352V
太阳能电池板最大功率 Maximum power of solar panels	19.2KW	28.8KW	38.4KW	48KW
太阳能电池板输入路数 Input PV module array number	2	3	4	5
功能 Function	自动停止充电，自动恢复充电，极性反接保护，短路保护，过流保护，过热保护 Auto stop charge, auto recharge voltage; Protection: connecting contrary, over current, short circuit, over heat etc.			
显示 Display mode	液晶显示 LCD			
显示内容 Display content	太阳能板电压、太阳能板电流、太阳能板功率、蓄电池电压、充电电流 solar panel voltage, solar panel current, solar panel power, battery voltage, charge current			
浮充电压 (可调) Floating Charge Voltage (adjustable)	220Vdc	220Vdc	220Vdc	220Vdc
停止充电电压 Stop charge voltage	232Vdc	232Vdc	232Vdc	232Vdc
恢复充电电压 Recharge voltage	216Vdc	216Vdc	216Vdc	216Vdc
太阳能板与蓄电池之间的压降 Voltage drop between PV and battery	1.5V			
最大自耗电 Max itself power consumption	100mA-150mA			
工作温度 Work environment temperature	-30-60°C			
相对湿度 Relative humidity	< 90% 不结露 < 90% No condensation			
海拔高度 Applicable altitude	< 3000m (超过 3000 米需降额使用) The rated power should be reduced when it is higher than 2000m			
噪音 (1m) Noise (1m)	< 40dB			
防护等级 Degree of protection	IP20 (室内 Indoor)			
制冷方式 Cooling method	强制风冷 Forced air cooling			
*远程通讯 (可选) *Communication interface (optional)	RS485/USB/GPRS/Ethernet			
*温度补偿 (可选) *Temperature compensation(optional)	-4mv/°C/2V,-35°C~+80°C, 精度 Accuracy:±1°C			
产品尺寸 Product size (mm)	760*600*180	690*590*1300	690*590*1300	700*620*1620
重量 Weight (Kg)	26Kg	115Kg	120Kg	145Kg

技术参数 | 220V 系列 Technical Parameters of 220V Series

型号 Model	SDC220V-30A	SDC220V-50A	SDC220V-60A	SDC220V-80A
配用蓄电池组电压 Battery group rated voltage	220Vdc	220Vdc	220Vdc	220Vdc
太阳能电池板额定电流 PV Rated current	30A	50A	60A	80A
最大太阳能电池板开路电压 Max. PV open circuit voltage	396V	396V	396V	396V
太阳能电池板最大功率 Maximum power of solar panels	6600Wp	11000Wp	13200Wp	17600Wp
太阳能电池板输入路数 Input PV module array number	1	1	2	2
功能 Function	自动停止充电, 自动恢复充电, 极性反接保护, 短路保护, 过流保护, 过热保护 Auto stop charge, auto recharge voltage; Protection: connecting contrary, over current, short circuit, over heat etc.			
显示 Display mode	液晶显示 LCD			
显示内容 Display content	太阳能板电压、太阳能板电流、太阳能板功率、蓄电池电压、充电电流 solar panel voltage, solar panel current, solar panel power, battery voltage, charge current			
浮充电压 (可调) Floating Charge Voltage (adjustable)	248Vdc	248Vdc	248Vdc	248Vdc
停止充电电压 Stop charge voltage	260Vdc	260Vdc	260Vdc	260Vdc
恢复充电电压 Recharge voltage	243Vdc	243Vdc	243Vdc	243Vdc
太阳能板与蓄电池之间的压降 Voltage drop between PV and battery	1.5V			
最大自耗电 Max itself power consumption	100mA-150mA			
工作温度 Work environment temperature	-30-60°C			
相对湿度 Relative humidity	< 90% 不结露 < 90% No condensation			
海拔高度 Applicable altitude	< 3000m (超过 3000 米需降额使用) The rated power should be reduced when it is higher than 2000m			
噪音 (1m) Noise (1m)	< 40dB			
防护等级 Degree of protection	IP20 (室内 Indoor)			
制冷方式 Cooling method	强制风冷 Forced air cooling			
*远程通讯 (可选) *Communication interface (optional)	RS485/USB/GPRS/Ethernet			
*温度补偿 (可选) *Temperature compensation(optional)	-4mv/°C/2V, -35°C~+80°C, 精度 Accuracy:±1°C			
产品尺寸 Product size (mm)	520*430*200mm			
重量 Weight (Kg)	12Kg			

型号 Model	SDC220V-100A	SDC220V-150A	SDC220V-200A	SDC220V-300A
配用蓄电池组电压 Battery group rated voltage	220Vdc	220Vdc	220Vdc	220Vdc
太阳能电池板额定电流 PV Rated current	100A	150A	200A	300A
最大太阳能电池板开路电压 Max. PV open circuit voltage	396V	396V	396V	396V
太阳能电池板最大功率 Maximum power of solar panels	22KW	33KW	44KW	66KW
太阳能电池板输入路数 Input PV module array number	2	3	4	6
功能 Function	自动停止充电, 自动恢复充电, 极性反接保护, 短路保护, 过流保护, 过热保护 Auto stop charge, auto recharge voltage; Protection: connecting contrary, over current, short circuit, over heat etc.			
显示 Display mode	液晶显示 LCD			
显示内容 Display content	太阳能板电压、太阳能板电流、太阳能板功率、蓄电池电压、充电电流 solar panel voltage, solar panel current, solar panel power, battery voltage, charge current			
浮充电压 (可调) Floating Charge Voltage (adjustable)	248Vdc	248Vdc	248Vdc	248Vdc
停止充电电压 Stop charge voltage	260Vdc	260Vdc	260Vdc	260Vdc
恢复充电电压 Recharge voltage	243Vdc	243Vdc	243Vdc	243Vdc
太阳能板与蓄电池之间的压降 Voltage drop between PV and battery	1.5V			
最大自耗电 Max itself power consumption	100mA-150mA			
工作温度 Work environment temperature	-30-60°C			
相对湿度 Relative humidity	< 90% 不结露 < 90% No condensation			
海拔高度 Applicable altitude	< 3000m (超过 3000 米需降额使用) The rated power should be reduced when it is higher than 2000m			
噪音 (1m) Noise (1m)	< 40dB			
防护等级 Degree of protection	IP20 (室内 Indoor)			
制冷方式 Cooling method	强制风冷 Forced air cooling			
*远程通讯 (可选) *Communication interface (optional)	RS485/USB/GPRS/Ethernet			
*温度补偿 (可选) *Temperature compensation(optional)	-4mv/°C/2V,-35°C~+80°C, 精度 Accuracy:±1°C			
产品尺寸 Product size (mm)	760*600*180	690*590*1300	690*590*1300	700*620*1620
重量 Weight (Kg)	26Kg	115Kg	120Kg	145Kg

技术参数 | 240V 系列 Technical Parameters of 240V Series

型号 Model	SDC240V-30A	SDC240V-50A	SDC240V-60A	SDC240V-80A
配用蓄电池组电压 Battery group rated voltage	240Vdc	240Vdc	240Vdc	240Vdc
太阳能电池板额定电流 PV Rated current	30A	50A	60A	80A
最大太阳能电池板开路电压 Max. PV open circuit voltage	440V	440V	440V	440V
太阳能电池板最大功率 Maximum power of solar panels	7.2KW	12KW	14.4KW	19.2KW
太阳能电池板输入路数 Input PV module array number	1	1	2	2
功能 Function	自动停止充电, 自动恢复充电, 极性反接保护, 短路保护, 过流保护, 过热保护 Auto stop charge, auto recharge voltage; Protection: connecting contrary, over current, short circuit, over heat etc.			
显示 Display mode	液晶显示 LCD			
显示内容 Display content	太阳能板电压、太阳能板电流、太阳能板功率、蓄电池电压、充电电流 solar panel voltage, solar panel current, solar panel power, battery voltage, charge current			
浮充电压 (可调) Floating Charge Voltage (adjustable)	276Vdc	276Vdc	276Vdc	276Vdc
停止充电电压 Stop charge voltage	290Vdc	290Vdc	290Vdc	290Vdc
恢复充电电压 Recharge voltage	270Vdc	270Vdc	270Vdc	270Vdc
太阳能板与蓄电池之间的压降 Voltage drop between PV and battery	1.5V			
最大自耗电 Max itself power consumption	100mA-150mA			
工作温度 Work environment temperature	-30-60°C			
相对湿度 Relative humidity	< 90% 不结露 < 90% No condensation The rated power should be reduced when it is higher than 2000m			
海拔高度 Applicable altitude	< 3000m (超过 3000 米需降额使用)			
噪音 (1m) Noise (1m)	< 40dB			
防护等级 Degree of protection	IP20 (室内 Indoor)			
制冷方式 Cooling method	强制风冷 Forced air cooling			
*远程通讯 (可选) *Communication interface (optional)	RS485/USB/GPRS/Ethernet			
*温度补偿 (可选) *Temperature compensation(optional)	-4mv/°C/2V, -35°C~+80°C, 精度 Accuracy:±1°C			
产品尺寸 Product size (mm)	520*430*200mm			
重量 Weight	12Kg			

型号 Model	SDC240V-100A	SDC240V-150A	SDC240V-200A	SDC240V-300A
配用蓄电池组电压 Battery group rated voltage	240Vdc	240Vdc	240Vdc	240Vdc
太阳能电池板额定电流 PV Rated current	100A	150A	200A	300A
最大太阳能电池板开路电压 Max. PV open circuit voltage	440V	400V	400V	400V
太阳能电池板最大功率 Maximum power of solar panels	24KW	36KW	48KW	72KW
太阳能电池板输入路数 Input PV module array number	2	3	4	6
功能 Function	自动停止充电, 自动恢复充电, 极性反接保护, 短路保护, 过流保护, 过热保护 Auto stop charge, auto recharge voltage; Protection: connecting contrary, over current, short circuit, over heat etc.			
显示 Display mode	液晶显示 LCD			
显示内容 Display content	太阳能板电压、太阳能板电流、太阳能板功率、蓄电池电压、充电电流 solar panel voltage, solar panel current, solar panel power, battery voltage, charge current			
浮充电压 (可调) Floating Charge Voltage (adjustable)	276Vdc	276Vdc	276Vdc	276Vdc
停止充电电压 Stop charge voltage	290Vdc	290Vdc	290Vdc	290Vdc
恢复充电电压 Recharge voltage	270Vdc	270Vdc	270Vdc	270Vdc
太阳能板与蓄电池之间的压降 Voltage drop between PV and battery	1.5V			
最大自耗电 Max itself power consumption	100mA-150mA			
工作温度 Work environment temperature	-30-60°C			
相对湿度 Relative humidity	< 90% 不结露 < 90% No condensation			
海拔高度 Applicable altitude	< 3000m (超过 3000 米需降额使用) The rated power should be reduced when it is higher than 2000m			
噪音 (1m) Noise (1m)	< 40dB			
防护等级 Degree of protection	IP20 (室内 Indoor)			
制冷方式 Cooling method	强制风冷 Forced air cooling			
*远程通讯 (可选) *Communication interface (optional)	RS485/USB/GPRS/Ethernet			
*温度补偿 (可选) *Temperature compensation(optional)	-4mv/°C/2V, -35°C~+80°C, 精度 Accuracy:±1°C			
产品尺寸 Product size (mm)	760*600*180	690*590*1300	690*590*1300	700*620*1620
重量 Weight (Kg)	26Kg	115Kg	120Kg	145Kg

技术参数 | 360V 系列 Technical Parameters of 360V Series

型号 Model	SDC360V-30A	SDC360V-50A	SDC360V-60A	SDC360V-80A
配用蓄电池组电压 Battery group rated voltage	360V	360V	360V	360V
太阳能电池板额定电流 PV Rated current	30A	50A	60A	80A
最大太阳能电池板开路电压 Max. PV open circuit voltage	660V	660V	660V	660V
太阳能电池板最大功率 Maximum power of solar panels	10.8KW	18KW	21.6KW	28.8KW
太阳能电池板输入路数 Input PV module array number	1	1	1 / 2	2
功能 Function	自动停止充电, 自动恢复充电, 极性反接保护, 短路保护, 过流保护, 过热保护 Auto stop charge, auto recharge voltage; Protection: connecting contrary, over current, short circuit, over heat etc.			
显示 Display mode	液晶显示 LCD			
显示内容 Display content	太阳能板电压、太阳能板电流、太阳能板功率、蓄电池电压、充电电流 solar panel voltage, solar panel current, solar panel power, battery voltage, charge current			
浮充电压 (可调) Floating Charge Voltage (adjustable)	414V	414V	414V	414V
停止充电电压 Stop charge voltage	435V±2	435V±2	435V±2	435V±2
恢复充电电压 Recharge voltage	405V±2	405V±2	405V±2	405V±2
太阳能板与蓄电池之间的压降 Voltage drop between PV and battery	1.5V			
最大自耗电 Max itself power consumption	100mA-150mA			
工作温度 Work environment temperature	-30-60°C			
相对湿度 Relative humidity	< 90% 不结露 < 90% No condensation			
海拔高度 Applicable altitude	< 3000m			
噪音 (1m) Noise (1m)	< 40dB			
防护等级 Degree of protection	IP20 (室内 Indoor)			
制冷方式 Cooling method	强制风冷 Forced air cooling			
*远程通讯 (可选) *Communication interface (optional)	RS485/USB/GPRS/Ethernet			
*温度补偿 (可选) *Temperature compensation(optional)	-4mv/°C/2V,-35°C~+80°C, 精度 Accuracy:±1°C			
产品尺寸 Product size (mm)	520*430*200mm		760*600*180mm	
重量 Weight (Kg)	10Kg		28Kg	

型号 Model	SDC360V-100A	SDC360V-150A	SDC360V-200A	SDC360V-250A
配用蓄电池组电压 Battery group rated voltage	360V	360V	360V	360V
太阳能电池板额定电流 PV Rated current	100A	150A	200A	250A
最大太阳能电池板开路电压 Max. PV open circuit voltage range	660V	660V	660V	660V
太阳能电池板最大功率 Maximum power of solar panels	36KW	54KW	72KW	90KW
太阳能电池板输入路数 Input PV module array number	2	3	4	5
功能 Function	自动停止充电，自动恢复充电，极性反接保护，短路保护，过流保护，过热保护 Auto stop charge, auto recharge voltage; Protection: connecting contrary, over current, short circuit, over heat etc.			
显示 Display mode	液晶显示 LCD			
显示内容 Display content	太阳能板电压、太阳能板电流、太阳能板功率、蓄电池电压、充电电流 solar panel voltage, solar panel current, solar panel power, battery voltage, charge current			
浮充电压 (可调) Floating Charge Voltage (adjustable)	414V	414V	414V	414V
停止充电电压 Stop charge voltage	435V±2	435V±2	435V±2	435V±2
恢复充电电压 Recharge voltage	405V±2	405V±2	405V±2	405V±2
太阳能板与蓄电池之间的压降 Voltage drop between PV and battery	1.5V			
最大自耗电 Max itself power consumption	100mA-150mA			
工作温度 Work environment temperature	-30-60°C			
相对湿度 Relative humidity	< 90% 不结露 < 90% No condensation			
海拔高度 Applicable altitude	< 3000m			
噪音 (1m) Noise (1m)	< 40dB			
防护等级 Degree of protection	IP20 (室内 Indoor)			
制冷方式 Cooling method	强制风冷 Forced air cooling			
*远程通讯 (可选) *Communication interface (optional)	RS485/USB/GPRS/Ethernet			
*温度补偿 (可选) *Temperature compensation(optional)	-4mv/°C/2V,-35°C~+80°C, 精度 Accuracy:±1°C			
产品尺寸 Product size (mm)	585*585*980mm		690*590*1300mm	
重量 Weight (Kg)	65Kg		120Kg	

技术参数 | 480V 系列 Technical Parameters of 480V Series

型号 Model	SDC480V-30A	SDC480V-50A	SDC480V-60A	SDC480V-80A
配用蓄电池组电压 Battery group rated voltage	480V	480V	480V	480V
太阳能电池板额定电流 PV Rated current	30A	50A	60A	80A
最大太阳能电池板开路电压 Max. PV open circuit voltage range	880V	880V	880V	880V
太阳能电池板最大功率 Maximum power of solar panels	14.4KW	24KW	28.8KW	38.4KW
太阳能电池板输入路数 Input PV module array number	1	1	1 / 2	2
功能 Function	自动停止充电, 自动恢复充电, 极性反接保护, 短路保护, 过流保护, 过热保护 Auto stop charge, auto recharge voltage; Protection: connecting contrary, over current, short circuit, over heat etc.			
显示 Display mode	液晶显示 LCD			
显示内容 Display content	太阳能板电压、太阳能板电流、太阳能板功率、蓄电池电压、充电电流 Solar panel voltage, solar panel current, solar panel power, battery voltage, charge current			
浮充电压 (可调) Floating Charge Voltage (adjustable)	552V	552V	552V	552V
停止充电电压 Stop charge voltage	580V±2	580V±2	580V±2	580V±2
恢复充电电压 Recharge voltage	540V±2	540V±2	540V±2	540V±2
太阳能板与蓄电池之间的压降 Voltage drop between PV and battery	1.5V			
最大自耗电 Max itself power consumption	100mA-150mA			
工作温度 Work environment temperature	-30-60°C			
相对湿度 Relative humidity	< 90% 不结露 < 90% No condensation			
海拔高度 Applicable altitude	< 3000m			
噪音 (1m) Noise (1m)	< 40dB			
防护等级 Degree of protection	IP20 (室内 Indoor)			
制冷方式 Cooling method	强制风冷 Forced air cooling			
*远程通讯 (可选) *Communication interface (optional)	RS485/USB/GPRS/Ethernet			
*温度补偿 (可选) *Temperature compensation(optional)	-4mv/°C/2V,-35°C~+80°C, 精度 Accuracy:±1°C			
产品尺寸 Product size (mm)	520*430*200mm		760*600*180	
重量 Weight (Kg)	10Kg		28Kg	

型号 Model	SDC480V-100A	SDC480V-150A	SDC480V-200A	SDC480V-250A
配用蓄电池组电压 Battery group rated voltage	480V	480V	480V	480V
太阳能电池板额定电流 PV Rated current	100A	50A	60A	80A
最大太阳能电池板开路电压 Max. PV open circuit voltage range	880V	880V	880V	880V
太阳能电池板最大功率 Maximum power of solar panels	48KW	72KW	96KW	120KW
太阳能电池板输入路数 Input PV module array number	2	3	4	5
功能 Function	自动停止充电，自动恢复充电，极性反接保护，短路保护，过流保护，过热保护 Auto stop charge, auto recharge voltage; Protection: connecting contrary, over current, short circuit, over heat etc.			
显示 Display mode	液晶显示 LCD			
显示内容 Display content	太阳能板电压、太阳能板电流、太阳能板功率、蓄电池电压、充电电流 solar panel voltage, solar panel current, solar panel power, battery voltage, charge current			
浮充电压 (可调) Floating Charge Voltage (adjustable)	552V	552V	552V	552V
停止充电电压 Stop charge voltage	580V±2	580V±2	580V±2	580V±2
恢复充电电压 Recharge voltage	540V±2	540V±2	540V±2	540V±2
太阳能板与蓄电池之间的压降 Voltage drop between PV and battery	1.5V			
最大自耗电 Max itself power consumption	100mA-150mA			
工作温度 Work environment temperature	-30-60°C			
相对湿度 Relative humidity	< 90% 不结露 < 90% No condensation			
海拔高度 Applicable altitude	< 3000m			
噪音 (1m) Noise (1m)	< 40dB			
防护等级 Degree of protection	IP20 (室内 Indoor)			
制冷方式 Cooling method	强制风冷 Forced air cooling			
*远程通讯 (可选) *Communication interface (optional)	RS485/USB/GPRS/Ethernet			
*温度补偿 (可选) *Temperature compensation (optional)	-4mv/°C/2V,-35°C~+80°C, 精度 Accuracy:±1°C			
产品尺寸 Product size (mm)	585*585*980mm		690*590*1300mm	
重量 Weight (Kg)	65Kg		120Kg	

***Above parameter only for reference. Could be custom made to user specifications.**