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MJDK0041CA--2



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PV 并网逆变器 Grid-connected inverter



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光伏并网发电系统由光伏组件、并网逆变器、计量装置及配电系统组成（如下图所示）。太阳能能量通过光伏组件转化为直流电力，再通过并网型逆变器将直流电能转化为与电网同频率、同相位的正弦波电流，一部分给当地负荷供电，剩余电力馈入电网。

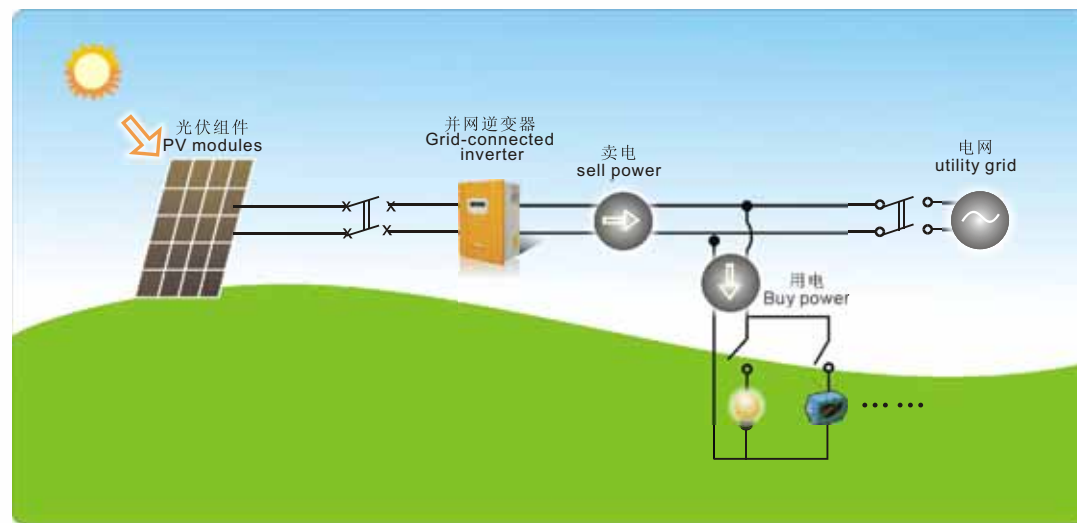
- ◆ 高直流输入电压
- ◆ DSP芯片控制
- ◆ 采用日本三菱第五代智能功率模块（IPM）
- ◆ 最大功率点跟踪技术
- ◆ 高效率
- ◆ 完善的保护功能(包括反孤岛保护)
- ◆ 按照IEEE929-2000和UL1741标准设计
- ◆ 安装调试简便
- ◆ 可通过液晶和按键设定运行参数
- ◆ 适用于小风机并网的应用场合
- ◆ 不锈钢外壳，全密封安装（IP65）
- ◆ 高性价比

PV grid-connected power system includes PV modules , grid-connected inverter, meter and power switchboard. The PV modules convert the solar energy to the DC power, Then the grid-connected inverter convert the DC power to the sine wave AC power which has the same frequency and phase with the grid voltage. The AC power feed-in the grid partly and the other power supply the local loads.

- ◆ High DC input voltage (up to 880V)
- ◆ DSP controller
- ◆ Using the fifth generation IPM from Mitsubishi company as the power component
- ◆ MPPT (Maximum Power Point Tracking) technology
- ◆ High efficiency (up to 94%)
- ◆ Perfect protect functions include anti-islanding
- ◆ In accordance with IEEE929-2000,UL1741
- ◆ Quick and easy installation
- ◆ Can setting the operation parameters via LCD and keys
- ◆ Suit to connecting with small wind turbine
- ◆ Stainless steel shell with outdoor seal (Ip65)
- ◆ High cost-efficiency

并网逆变电源

PV Grid-connected inverter



PV Grid-connected inverter

- ◆ 采用三菱第五代IPM模块,大大提高系统效率
- ◆ MPPT自寻优技术,最大限度提高系统的发电量
- ◆ 多语种液晶显示功能,可自由设置
- ◆ 多种通讯接口可以选择,可方便的实现上位机监控
- ◆ 完善的保护功能,系统的可靠性更高
- ◆ 宽直流输入电压范围
- ◆ 人性化界面,可通过按键设定各种运行参数
- ◆ 可实现多台逆变器并联组合运行,简化发电站设计
- ◆ 优质的铝型材外观设计,体积小、重量轻,安装调试简便
- ◆ 具有直插式防水端子
- ◆ CE 认证

- ◆ Using the fifth generation Intelligent Power Module from Mitsubishi, improve the system efficiency higher.
- ◆ MPPT auto-optimizing technique makes the most of the generation capacity.
- ◆ Easy-to-set multilingual LCD display.
- ◆ Multi communication interface can be selected.
- ◆ High reliability due to complete protection function.
- ◆ Wide DC input voltage range.
- ◆ Friendly LCD interface, can adjust operation parameters through keys.
- ◆ Parallel running capability with other inverters, simplifies the design of PV power station.
- ◆ High quality aluminum enclosure with smaller size and lower weight, Easy to mount.
- ◆ Water-proof direct-plug terminals.
- ◆ CE Certification.



TYPE SG1K5TL

■ 技术参数

隔离方式	无变压器
推荐最大太阳能电池阵列功率	1800Wp
最大阵列开路电压	450V
太阳能电池最大功率点跟踪 (MPPT) 范围	150~450V
电池板连接方式	直插式防水端子
可接入阵列路数	1
最大阵列输入电流	10A
额定交流输出功率	1500W
总电流波形畸变率	< 4 %
功率因数	>0.99
最大效率	95 %

欧洲效率	93 %
允许电网电压范围 (单相)	180~260 VAC
允许电网频率范围	49 ~51Hz&59 ~61Hz
夜间自耗电	0 W
通讯接口	RS485
防护等级	IP41(室内)
使用环境温度	- 20°C ~ + 40°C
噪音	<40 dB
冷却	自然冷却
尺寸 (宽x高x深)	288 x410x 126mm
重量	10.3kg

Technical Parameters

Isolated style	Transformerless
Recommended max. PV power	1800Wp
Max. DC input voltage	450 V
MPPT voltage range	150V~450 V
Connection with PV cables	Water-proof direct-plug terminals
Number of strings	1
Max. DC input current	10 A
Nominal AC output power	1500 W
Total Harmonic Distortion (THD)	< 4 %
Power Factor	>0.99
Max. Efficiency	95 %

Europe Efficiency	93 %
Operating range of utility voltage	180~260 VAC
Operating range of utility frequency	49 ~51Hz&59 ~61Hz
Self consumption at night	0 W
Communication Interfaces	RS485
Waterproof and Dustproof Class(EN 60529)	IP41(indoor)
Operation Surroundings Temperature	- 20°C~ + 40°C
Noise level	<40dB
Cooling	Natural cooling
Size (W x H x D)	288 x 410 x 126 mm
Weight	10.3kg

PV Grid-connected inverter

- ◆ 采用三菱第五代IPM模块,大大提高系统效率
- ◆ MPPT自寻优技术,最大限度提高系统的发电量
- ◆ 多语种液晶显示功能,可自由设置
- ◆ 多种通讯接口可以选择,可方便的实现上位机监控
- ◆ 完善的保护功能,系统的可靠性更高
- ◆ 宽直流输入电压范围
- ◆ 人性化界面,可通过按键设定各种运行参数
- ◆ 可实现多台逆变器并联组合运行,简化发电站设计
- ◆ 优质的铝型材外观设计,体积小、重量轻,安装调试简便
- ◆ 具有直插式防水端子
- ◆ CE 认证

- ◆ Using the fifth generation Intelligent Power Module from Mitsubishi, improve the system efficiency higher.
- ◆ MPPT auto-optimizing technique makes the most of the generation capacity.
- ◆ Easy-to-set multilingual LCD display.
- ◆ Multi communication interface can be selected.
- ◆ High reliability due to complete protection function.
- ◆ Wide DC input voltage range.
- ◆ Friendly LCD interface, can adjust operation parameters through keys.
- ◆ Parallel running capability with other inverters, simplifies the design of PV power station.
- ◆ High quality aluminum enclosure with smaller size and lower weight, Easy to mount.
- ◆ Water-proof direct-plug terminals.
- ◆ CE Certification.



TYPE SG2K5TL

■ 技术参数

隔离方式	无变压器
推荐最大太阳能电池阵列功率	3000Wp
最大阵列开路电压	450V
太阳能电池最大功率点跟踪 (MPPT) 范围	150~450V
电池板连接方式	直插式防水端子
可接入阵列串联数	2
最大阵列输入电流	20A
额定交流输出功率	2500W
总电流波形畸变率	< 4 %
功率因数	>0.99
最大效率	95 %

欧洲效率	93 %
允许电网电压范围 (单相)	180~260 VAC
允许电网频率范围	49 ~51Hz&59 ~61Hz
夜间自耗电	0 W
通讯接口	RS485
防护等级	IP41(室内)
使用环境温度	- 20°C ~ + 40°C
噪音	<40 dB
冷却	自然冷却
尺寸 (宽x高x深)	288 x460x 126mm
重量	11.3kg

Technical Parameters

Isolated style	Transformerless
Recommended max. PV power	3000Wp
Max. DC input voltage	450 V
MPPT voltage range	150V~450 V
Connection with PV cables	Water-proof direct-plug terminals
Number of strings(parallel)	2
Max. DC input current	20 A
Nominal AC output power	2500 W
Total Harmonic Distortion (THD)	< 4 %
Power Factor	>0.99
Max. Efficiency	95 %

Europe Efficiency	93 %
Operating range of utility voltage	180~260 VAC
Operating range of utility frequency	49 ~51Hz&59 ~61Hz Hz
Self consumption at night	0 W
Communication Interfaces	RS485
Waterproof and Dustproof Class(EN 60529)	IP41(indoor)
Operation Surroundings Temperature	- 20°C ~ + 40°C
Noise level	<40dB
Cooling	Natural cooling
Size (W x H x D)	288 x 460 x 126 mm
Weight	11.3kg

PV Grid-connected inverter

- ◆ 采用三菱第五代IPM模块,大大提高系统效率
- ◆ MPPT自寻优技术,最大限度提高系统的发电量
- ◆ 多语种液晶显示功能,可自由设置
- ◆ 多种通讯接口可以选择,可方便的实现上位机监控
- ◆ 完善的保护功能,系统的可靠性更高
- ◆ 宽直流输入电压范围
- ◆ 人性化界面, 可通过按键设定各种运行参数
- ◆ 可实现多台逆变器并联组合运行,简化发电站设计
- ◆ 柜体采用IP65防护等级, 不锈钢外壳,适合户外安装使用
- ◆ 具有直插式防水端子
- ◆ CE 认证

- ◆ Using the fifth generation Intelligent Power Module from Mitsubishi, improve the system efficiency higher.
- ◆ MPPT auto-optimizing technique makes the most of the generation capacity.
- ◆ Easy-to-set multilingual LCD display.
- ◆ Multi communication interface can be selected.
- ◆ High reliability due to complete protection function.
- ◆ Wide DC input voltage range.
- ◆ Friendly LCD interface, can adjust operation parameters through keys.
- ◆ Parallel running capability with other inverters, simplifies the design of PV power station.
- ◆ The cabinet uses the stainless steel outer covering with the IP65 protection rank, which is suitable for the outdoors installation.
- ◆ Water-proof direct-plug terminals.
- ◆ CE Certification.



TYPE SG3K

■ 技术参数

隔离方式	工频变压器
推荐最大太阳能电池阵列功率	3600WP
最大阵列开路电压	450V
太阳能电池最大功率点跟踪 (MPPT) 范围	200~450V
电池板连接方式	直插式防水端子
可接入阵列串联数	2
最大阵列输入电流	18A
额定交流输出功率	3000W
总电流波形畸变率	< 4 %
功率因数	>0.99
最大效率	94 %

欧洲效率	92 %
允许电网电压范围 (单相)	180~260 VAC
允许电网频率范围	49 ~51Hz&59 ~61Hz
夜间自耗电	0W
通讯接口	RS485
防护等级	IP65(户外)
使用环境温度	- 25°C ~ + 60°C
噪音	<40 dB
冷却	自然冷却
尺寸 (宽x高x深)	490 x385x 225mm
重量	44kg

Technical Parameters

Isolated style	Low frequency transformer
Recommended max. PV power	3600Wp
Max. DC input voltage	450 V
MPPT voltage range	200V~450 V
Connection with PV cables	Water-proof direct-plug terminals
Number of strings(parallel)	2
Max. DC input current	18 A
Nominal AC output power	3000 W
Total Harmonic Distortion (THD)	< 4 %
Power Factor	>0.99
Max. Efficiency	94 %

Europe Efficiency	92 %
Operating range of utility voltage	180~260VAC
Operating range of utility frequency	49 ~51Hz&59 ~61Hz
Self consumption at night	0W
Communication Interfaces	RS485
Waterproof and Dustproof Class(EN 60529)	IP65(outdoor)
Operation Surroundings Temperature	- 25°C~ + 60°C
Noise level	<40dB
Cooling	Natural cooling
Size (W x H x D)	490 x 385 x 225 mm
Weight	44kg

PV Grid-connected inverter

- ◆ 采用三菱第五代IPM模块,大大提高系统效率
- ◆ MPPT自寻优技术,最大限度提高了系统的发电量;
- ◆ 多语种液晶显示功能,可自由设置
- ◆ 多种通讯接口可以选择,可方便的实现上位机监控
- ◆ 完善的保护功能,系统的可靠性更高
- ◆ 宽直流输入电压范围
- ◆ 人性化界面, 可通过按键设定各种运行参数
- ◆ 可实现多台逆变器并联组合运行,简化发电站设计
- ◆ 具有直插式防水端子
- ◆ CE 认证

- ◆ Using the fifth generation Intelligent Power Module from Mitsubishi, improve the system efficiency higher.
- ◆ MPPT auto-optimizing technique makes the most of the generation capacity.
- ◆ Easy-to-set multilingual LCD display.
- ◆ Multi communication interface can be selected.
- ◆ High reliability due to complete protection function.
- ◆ Wide DC input voltage range.
- ◆ Friendly LCD interface, can adjust operation parameters through keys.
- ◆ Parallel running capability with other inverters, simplifies the design of PV power station.
- ◆ Water-proof direct-plug terminals.
- ◆ CE Certification.



TYPE SG5K-C/6K-C

■ 技术参数

隔离方式	工频变压器
推荐最大太阳能电池阵列功率	6000WP/7200WP
最大阵列开路电压	780V
太阳能电池最大功率点跟踪 (MPPT) 范围	220~780V/240~780V
电池板连接方式	直插式防水端子
可接入阵列串联数	4
最大阵列输入电流	25A
额定交流输出功率	5000W/6000W
总电流波形畸变率	< 4 %
功率因数	>0.99
最大效率	94 %

欧洲效率	92 %
允许电网电压范围 (单相)	180~260 VAC
允许电网频率范围	49 ~51Hz&59 ~61Hz
夜间自耗电	0 W
通讯接口	RS485
防护等级	IP20(室内)
使用环境温度	- 10°C ~ + 40°C
噪音	<40 dB
冷却	风冷
尺寸 (宽x高x深)	350 x569x 243 mm
重量	57kg

Technical Parameters

Isolated style	Low frequency transformer
Recommended max. PV power	6000Wp/7200WP
Max. DC input voltage	780 V
MPPT voltage range	220V~780 V/240V~780 V
Connection with PV cables	Water-proof direct-plug terminals
Number of strings(parallel)	4
Max. DC input current	25 A
Nominal AC output power	5000 W/6000W
Total Harmonic Distortion (THD)	< 4 %
Power Factor	>0.99
Max. Efficiency	94 %

Europe Efficiency	92 %
Operating range of utility voltage	180~260VAC
Operating range of utility frequency	49 ~51Hz&59 ~61Hz
Self consumption at night	0W
Communication Interfaces	RS485
Waterproof and Dustproof Class(EN 60529)	IP20(indoor)
Operation Surroundings Temperature	- 10°C~ + 40°C
Noise level	<40dB
Cooling	controlled fan cooling
Size (W x H x D)	350 x 569 x 243 mm
Weight	57kg

PV Grid-connected inverter

- ◆ 采用三菱第五代IPM模块,大大提高系统效率
- ◆ MPPT自寻优技术,最大限度提高系统的发电量
- ◆ 多语种液晶显示功能,可自由设置
- ◆ 多种通讯接口可以选择,可方便的实现上位机监控
- ◆ 完善的保护功能,系统的可靠性更高
- ◆ 宽直流输入电压范围
- ◆ 人性化界面, 可通过按键设定各种运行参数
- ◆ 可实现多台逆变器并联组合运行,简化发电站设计
- ◆ 柜体采用IP65防护等级, 不锈钢外壳,适合户外安装使用
- ◆ 具有直插式防水端子
- ◆ CE 认证

- ◆ Using the fifth generation Intelligent Power Module from Mitsubishi, improve the system efficiency higher.
- ◆ MPPT auto-optimizing technique makes the most of the generation capacity.
- ◆ Easy-to-set multilingual LCD display.
- ◆ Multi communication interface can be selected.
- ◆ High reliability due to complete protection function.
- ◆ Wide DC input voltage range.
- ◆ Friendly LCD interface, can adjust operation parameters through keys.
- ◆ Parallel running capability with other inverters, simplifies the design of PV power station.
- ◆ The cabinet uses the stainless steel outer covering with the IP65 protection rank, which is suitable for the outdoors installation.
- ◆ Water-proof direct-plug terminals.
- ◆ CE Certification.



TYPE SG5K-B/6K-B

■ 技术参数

隔离方式	工频变压器
推荐最大太阳能电池阵列功率	6000WP/7200WP
最大阵列开路电压	780V
太阳能电池最大功率点跟踪 (MPPT) 范围	320~780V/340~780V
电池板连接方式	直插式防水端子
可接入阵列串联数	4
最大阵列输入电流	20A
额定交流输出功率	5000W/ 6000W
总电流波形畸变率	< 4 %
功率因数	>0.99
最大效率	94 %

欧洲效率	92 %
允许电网电压范围 (单相)	180~260 VAC
允许电网频率范围	49 ~51Hz&59 ~61Hz Hz
夜间自耗电	0W
通讯接口	RS485
防护等级	IP65(户外)
使用环境温度	- 25°C ~ + 60°C
噪音	<40 dB
冷却	风冷
尺寸 (宽x高x深)	410 x580x 283 mm
重量	65kg

Technical Parameters

Isolated style	Low frequency transformer
Recommended max. PV power	6000Wp/7200Wp
Max. DC input voltage	780V
MPPT voltage range	300 ~780V/320~780V
Connection with PV cables	Water-proof direct-plug terminals
Number of strings(parallel)	4
Max. DC input current	20A
Nominal AC output power	5000W/6000 W
Total Harmonic Distortion (THD)	< 4 %
Power Factor	>0.99
Max. Efficiency	94 %

Europe Efficiency	92 %
Operating range of utility voltage	180~260VAC
Operating range of utility frequency	~51Hz&59 ~61Hz
Self consumption at night	0W
Communication Interfaces	RS485
Waterproof and Dustproof Class(EN 60529)	IP65(outdoor)
Operation Surroundings Temperature	- 25°C~ + 60°C
Noise level	<40dB
Cooling	Controlled fan cooling
Size (W x H x D)	410x580x283 mm
Weight	65kg