



**SUG**  
— 尚高新能源 —

尚高 带来光和温暖  
SUG brings light & warm

## ABOUT US

SUG(shanggao) in Chinese means Gracious & Exploration, which is the spirit we are following since our establish. For years we have been concentrating on offering the integrated power solution to our worldwide customers, and has gained good reputation in the market.

SUG New Energy Co., Ltd specialize in manufacturing high performance power inverter like Pure Sine Wave Inverter, Modified Sine Wave Inverter, Mini Car Inverter, PV On-grid Inverter, Solar Controller, Solar System and related accessories. To improve our research and high technology ability, we cooperated with China Electronics Technology Group which was located in Beijing in 2011, now we have established PCB & electronic research center and advanced testing lab.

SUG is growing fast through years' great effort, now we have become one of the leading inverter manufacturer in China. We are working with reliable distributors with online & offline network throughout China. We look forward to expanding our business with new agent and customer for our mutual benefit with each other.

## 关于尚高

尚高新能源科技有限公司是集逆变器、控制器、光伏发电系统等产品的研究设计、开发、生产和销售为一体的高科技企业，是国内领先的光伏离并网发电系统方案提供商，目前为全球60多个国家和地区的客户提供优质的光伏产品和全方位的服务。

尚高新能源致力于清洁能源领域的发展，主营业务包括家庭及工业电源、光伏产品、光伏系统设计集成等三个方向；生产研发的产品包括：离网逆变器、UPS、光伏并网逆变器、太阳能控制器、风力逆变器及变压器、太阳能路灯控制器、光伏一体机以及汇流箱等。这些产品在新能源、太阳能发电站、消防、建筑、工业、民用、金融、财税、电力、医疗、航空、军工自动化控制系统、国家重点工程建设等领域得到广泛应用。

公司坚持以科技为先导，配备了先进的测量仪器和测试设备，与清华大学、中国电子科技集团等保持长期、良好的合作关系，致力于通过产品和服务的不断创新为人类创造更美好的生活。

目前，公司下属的生产、销售以及项目子公司有：

**温州市尚高新能源科技有限公司    普洱尚高新能源科技有限公司    孟连爱伦能源科技有限公司**



美国FCC ETL认证  
北美移动房车系统专供



# 全新自主设计

高新科技智能显示 进口芯片全面保护

## New Design by SUG

New technical display, Top quality chip to protect





# SGP-E Series Pure Sine Wave Inverter

## SGP-E 高频纯正弦波逆变器



### 技术参数 Products Specification :

| 型号 / Model                    | SGPE300                                                                                                       | SGPE500     | SGPE1000       | SGPE1500      | SGPE2000    | SGPE3000     | SGPE4000       | SGPE5000       | SGPE6000     | SGPE8000     |
|-------------------------------|---------------------------------------------------------------------------------------------------------------|-------------|----------------|---------------|-------------|--------------|----------------|----------------|--------------|--------------|
| 额定功率 / Rated Power            | 300W                                                                                                          | 500W        | 1000W          | 1500W         | 2000W       | 3000W        | 4000W          | 5000W          | 6000W        | 8000W        |
| 峰值功率 / Surge Power            | 600W                                                                                                          | 1000W       | 2000W          | 3000W         | 4000W       | 6000W        | 8000W          | 10000W         | 12000W       | 16000W       |
| 输入电压 / Input Voltage          | 12/24/48VDC                                                                                                   |             |                |               |             |              |                | 24/48VDC       |              |              |
| 输出电压 / Output Voltage         | 110/220VAC ± 5%                                                                                               |             |                |               |             |              |                |                |              |              |
| USB端口 / USB Port              | 5V 1A                                                                                                         |             |                |               |             |              |                |                |              |              |
| 频率 / Frequency                | 50Hz ± 3 or 60Hz ± 3                                                                                          |             |                |               |             |              |                |                |              |              |
| 输出波形 / Output Waveform        | 纯正弦波 / Pure Sine Wave                                                                                         |             |                |               |             |              |                |                |              |              |
| 软启动 / Soft Start              | 有 / YES                                                                                                       |             |                |               |             |              |                |                |              |              |
| 总谐波失真 THD / AC Regulation     | THD < 3%(Linear Load)                                                                                         |             |                |               |             |              |                |                |              |              |
| 效率 / Output Efficiency        | 94% MAX                                                                                                       |             |                |               |             |              |                |                |              |              |
| 制冷方式 / Cooling Way            | 智能风扇 / Intelligent Cooling Fan                                                                                |             |                |               |             |              |                |                |              |              |
| 保护功能 / Protection             | 欠压保护, 过压保护, 过载保护, 过温保护, 短路保护 / Battery Low Voltage & Over Voltage, Over Load, Over Temperature, Short Circuit |             |                |               |             |              |                |                |              |              |
| 工作温度 / Working Temperature    | -10°C - +50°C                                                                                                 |             |                |               |             |              |                |                |              |              |
| 产品尺寸 / Dimension (L*W*H) (cm) | 19.5*11.2*6                                                                                                   | 23.2*15*7.8 | 32.6*16.5*8.7  | 36.2*16.5*8.7 | 43*16.5*8.7 | 41*21.6*15.6 | 46.5*21.6*15.6 | 46.5*21.6*15.6 | 50*21.6*15.6 | 55*21.6*15.6 |
| 外箱尺寸 / Meas./Ctn (L*W*H) (cm) | 51*49*30.7                                                                                                    | 63*34*38.5  | 67.5*37.3*29.7 | 52*47.5*38    | 52*47.5*38  | 52.5*31.5*25 | 57.5*31.5*25   | 57.5*31.5*25   | 62*31.5*25   | 65*31.5*25   |
| 净重/只 / N.W./Unit (kg)         | 1.0kg                                                                                                         | 2.0kg       | 3.1kg          | 4.3kg         | 5.2kg       | 9kg          | 10kg           | 10.5kg         | 12kg         | 14kg         |
| 毛重/箱 / G.W./Ctn               | 23kg                                                                                                          | 24kg        | 22kg           | 20kg          | 24.5kg      | 11kg         | 12kg           | 12.5kg         | 14kg         | 16kg         |
| 包装方式 / Packing                | 纸箱或蜂窝箱Honeycomb carton                                                                                        |             |                |               |             |              |                |                |              |              |
| 质保 / Warranty                 | 2 Years                                                                                                       |             |                |               |             |              |                |                |              |              |



电池反接保护  
BATTERY REVERSE POLARITY PROTECTION



过载保护  
OVERLOAD PROTECTION



过温保护  
OVER TEMPERATURE PROTECTION



过欠压保护  
OVER/UNDER VOLTAGE PROTECTION



短路保护  
SHORT CURRENT PROTECTION

# SGP-D Series Pure Sine Wave Inverter

## SGP-D 高频纯正弦波逆变器



### 技术参数 Products Specification :

| 型号 / Model                    | SGPD300                                                                                                       | SGPD500     | SGPD1000       | SGPD1500      | SGPD2000    | SGPD3000     | SGPD4000       | SGPD5000       | SGPD6000     | SGPD8000     |  |
|-------------------------------|---------------------------------------------------------------------------------------------------------------|-------------|----------------|---------------|-------------|--------------|----------------|----------------|--------------|--------------|--|
| 额定功率 / Rated Power            | 300W                                                                                                          | 500W        | 1000W          | 1500W         | 2000W       | 3000W        | 4000W          | 5000W          | 6000W        | 8000W        |  |
| 峰值功率 / Surge Power            | 600W                                                                                                          | 1000W       | 2000W          | 3000W         | 4000W       | 6000W        | 8000W          | 10000W         | 12000W       | 16000W       |  |
| 输入电压 / Input Voltage          | 12/24/48VDC                                                                                                   |             |                |               |             |              |                | 24/48VDC       |              |              |  |
| 输出电压 / Output Voltage         | 110/220VAC ± 5%                                                                                               |             |                |               |             |              |                |                |              |              |  |
| USB端口 / USB Port              | 5V 1A                                                                                                         |             |                |               |             |              |                |                |              |              |  |
| 频率 / Frequency                | 50Hz ± 3 or 60Hz ± 3                                                                                          |             |                |               |             |              |                |                |              |              |  |
| 输出波形 / Output Waveform        | 纯正弦波 / Pure Sine Wave                                                                                         |             |                |               |             |              |                |                |              |              |  |
| 软启动 / Soft Start              | 有 / YES                                                                                                       |             |                |               |             |              |                |                |              |              |  |
| 总谐波失真 THD / AC Regulation     | THD < 3%(Linear Load)                                                                                         |             |                |               |             |              |                |                |              |              |  |
| 效率 / Output Efficiency        | 94% MAX                                                                                                       |             |                |               |             |              |                |                |              |              |  |
| 制冷方式 / Cooling Way            | 智能风扇 / Intelligent Cooling Fan                                                                                |             |                |               |             |              |                |                |              |              |  |
| 保护功能 / Protection             | 欠压保护, 过压保护, 过载保护, 过温保护, 短路保护 / Battery Low Voltage & Over Voltage, Over Load, Over Temperature, Short Circuit |             |                |               |             |              |                |                |              |              |  |
| 工作温度 / Working Temperature    | - 10°C - + 50°C                                                                                               |             |                |               |             |              |                |                |              |              |  |
| 产品尺寸 / Dimension (L*W*H) (cm) | 19.5*11.2*6                                                                                                   | 23.2*15*7.8 | 32.6*16.5*8.7  | 36.2*16.5*8.7 | 43*16.5*8.7 | 41*21.6*15.6 | 46.5*21.6*15.6 | 46.5*21.6*15.6 | 50*21.6*15.6 | 55*21.6*15.6 |  |
| 外箱尺寸 / Meas./Ctn (L*W*H) (cm) | 51*49*30.7                                                                                                    | 63*34*38.5  | 67.5*37.3*29.7 | 52*47.5*38    | 52*47.5*38  | 52.5*31.5*25 | 57.5*31.5*25   | 57.5*31.5*25   | 62*31.5*25   | 65*31.5*25   |  |
| 净重/只 / N.W./Unit (kg)         | 1.0kg                                                                                                         | 2.0kg       | 3.1kg          | 4.3kg         | 5.2kg       | 9kg          | 10kg           | 10.5kg         | 12kg         | 14kg         |  |
| 毛重/箱 / G.W./Ctn               | 23kg                                                                                                          | 24kg        | 22kg           | 20kg          | 24.5kg      | 11kg         | 12kg           | 12.5kg         | 14kg         | 16kg         |  |
| 包装方式 / Packing                | 纸箱或蜂窝箱Honeycomb carton                                                                                        |             |                |               |             |              |                |                |              |              |  |
| 质保 / Warranty                 | 2年 2Years                                                                                                     |             |                |               |             |              |                |                |              |              |  |



电池反接保护  
REVERSE POLARITY  
PROTECTION



过载保护  
OVERLOAD  
PROTECTION



过温保护  
OVER TEMPERATURE  
PROTECTION



过欠压保护  
LOW/OVER VOLTAGE  
PROTECTION



短路保护  
SHORT CURRENT  
PROTECTION

# SGP-C Series Pure Sine Wave Inverter With UPS

## SGP-C 高频带充电纯正弦波逆变器



### 技术参数 Products Specification :

| 型号 / Model                    | SGPC500                                                                                                       | SGPC1000     | SGPC1500     | SGPC2000     | SGPC3000       | SGPC4000       | SGPC5000       |
|-------------------------------|---------------------------------------------------------------------------------------------------------------|--------------|--------------|--------------|----------------|----------------|----------------|
| 额定功率 / Rated Power            | 500W                                                                                                          | 1000W        | 1500W        | 2000W        | 3000W          | 4000W          | 5000W          |
| 峰值功率 / Surge Power            | 1000W                                                                                                         | 2000W        | 3000W        | 4000W        | 6000W          | 8000W          | 10000W         |
| 输入电压 / Input Voltage          | 12/24/48VDC                                                                                                   |              |              |              |                | 24/48VDC       |                |
| 输出电压 / Output Voltage         | 110/220VAC ± 5%                                                                                               |              |              |              |                |                |                |
| USB端口 / USB Port              | 5V 1A                                                                                                         |              |              |              |                |                |                |
| 频率 / Frequency                | 50Hz ± 3 or 60Hz ± 3                                                                                          |              |              |              |                |                |                |
| 输出波形 / Output Waveform        | 纯正弦波 / Pure Sine Wave                                                                                         |              |              |              |                |                |                |
| 软启动 / Soft Start              | 有 / YES                                                                                                       |              |              |              |                |                |                |
| 充电电流 / Charging Current       | 10/20/30A 可选optional                                                                                          |              |              |              |                |                |                |
| 供电优先 / Priority               | 市电优先 Grid first                                                                                               |              |              |              |                |                |                |
| 切换时间 / Transfer time          | 4 ms                                                                                                          |              |              |              |                |                |                |
| 制冷方式 / Cooling Way            | 智能风扇 / Intelligent Cooling Fan                                                                                |              |              |              |                |                |                |
| 保护功能 / Protection             | 欠压保护, 过压保护, 过载保护, 过温保护, 短路保护 / Battery Low Voltage & Over Voltage, Over Load, Over Temperature, Short Circuit |              |              |              |                |                |                |
| 工作温度 / Working Temperature    | -10°C - +50°C                                                                                                 |              |              |              |                |                |                |
| 产品尺寸 / Dimension (L*W*H) (cm) | 34.7*16.5*8.7                                                                                                 | 43*16.5*8.7  | 43*16.5*11.5 | 43*16.5*11.5 | 39.5*21.6*15.6 | 45.5*21.6*15.6 | 45.5*21.6*15.6 |
| 外箱尺寸 / Meas./Ctn (L*W*H) (cm) | 48.3*46*40.2                                                                                                  | 49.5*48*31.5 | 57*47*38.5   | 57*47*38.5   | 52.5*31.7*25   | 57.5*31.7*25   | 57.5*31.7*25   |
| 净重/只 / N.W./Unit (kg)         | 4.0kg                                                                                                         | 5.0kg        | 6.5kg        | 6.5kg        | 9.5kg          | 12kg           | 14kg           |
| 毛重/箱 / G.W./Ctn               | 25.1kg/6pcs                                                                                                   | 21.4kg/4pcs  | 28.6kg/4pcs  | 28.6kg/4pcs  | 10.5kg         | 13kg           | 15kg           |
| 包装方式 / Packing                | 纸箱或蜂窝箱Honeycomb carton                                                                                        |              |              |              |                |                |                |
| 质保 / Warranty                 | 1年 1Years                                                                                                     |              |              |              |                |                |                |



电池反接保护  
BATTERY REVERSE POLARITY PROTECTION



过载保护  
OVERLOAD PROTECTION



过温保护  
OVER TEMPERATURE PROTECTION



过欠压保护  
LOW VOLTAGE PROTECTION



短路保护  
SHORT CURRENT PROTECTION



# SGM Modified sine wave Inverter

## SGM 修正波逆变器



### 技术参数 Products Specification :

| 型号 / Model                 | SGM300                                                                                                        | SGM500 | SGM1000 | SGM1500 | SGM2000 | SGM3000 | SGM4000  | SGM5000 |
|----------------------------|---------------------------------------------------------------------------------------------------------------|--------|---------|---------|---------|---------|----------|---------|
| 额定功率 / Rated Power         | 300W                                                                                                          | 500W   | 1000W   | 1500W   | 2000W   | 3000W   | 4000W    | 5000W   |
| 峰值功率 / Surge Power         | 600W                                                                                                          | 1000W  | 2000W   | 3000W   | 4000W   | 6000W   | 8000W    | 10000W  |
| 输入电压 / Input Voltage       | 12/24/48VDC                                                                                                   |        |         |         |         |         | 24/48VDC |         |
| 输出电压 / Output Voltage      | 110/220VAC ± 5%                                                                                               |        |         |         |         |         |          |         |
| USB端口 / USB Port           | 5V 1A                                                                                                         |        |         |         |         |         |          |         |
| 频率 / Frequency             | 50Hz ± 3 or 60Hz ± 3                                                                                          |        |         |         |         |         |          |         |
| 输出波形 / Output Waveform     | 修正波 / Modified sine wave                                                                                      |        |         |         |         |         |          |         |
| 软启动 / Soft Start           | 有 / YES                                                                                                       |        |         |         |         |         |          |         |
| 总谐波失真 THD / AC Regulation  | THD < 3%(Linear Load)                                                                                         |        |         |         |         |         |          |         |
| 效率 / Output Efficiency     | 88% MAX                                                                                                       |        |         |         |         |         |          |         |
| 制冷方式 / Cooling Way         | 智能风扇 / Intelligent Cooling Fan                                                                                |        |         |         |         |         |          |         |
| 保护功能 / Protection          | 欠压保护, 过压保护, 过载保护, 过温保护, 短路保护 / Battery Low Voltage & Over Voltage, Over Load, Over Temperature, Short Circuit |        |         |         |         |         |          |         |
| 工作温度 / Working Temperature | -10°C - +50°C                                                                                                 |        |         |         |         |         |          |         |
| 包装方式 / Packing             | 纸箱或蜂窝箱Honeycomb carton                                                                                        |        |         |         |         |         |          |         |
| 质保 / Warranty              | 1年 1Years                                                                                                     |        |         |         |         |         |          |         |



电池反接保护  
REVERSE POLARITY  
PROTECTION



过载保护  
OVERLOAD  
PROTECTION



过温保护  
OVER TEMPERATURE  
PROTECTION



过欠压保护  
LOW VOLTAGE  
PROTECTION



短路保护  
SHORT CURRENT  
PROTECTION

# SEP Low Frequency Power Inverter

## SEP 单相工频逆变器



### 技术参数 Products Specification :

| 型号 / Model              |                                      | SEP30-1KW                                                  |     | SEP30-1.5KW |     | SEP30-2KW |     | SEP30-3KW |     | SEP30-4KW |     | SEP30-5KW        |     | SEP30-6KW |     |
|-------------------------|--------------------------------------|------------------------------------------------------------|-----|-------------|-----|-----------|-----|-----------|-----|-----------|-----|------------------|-----|-----------|-----|
| 系统电压 / Battery Voltage  |                                      | 12V                                                        | 24V | 12V         | 24V | 12V       | 24V | 12V       | 24V | 12V       | 24V | 12V              | 24V | 12V       | 24V |
| 逆变输出<br>Inverter Output | 额定功率 / Rated Power                   | 1000W                                                      |     | 1500W       |     | 2000W     |     | 3000W     |     | 4000W     |     | 5000W            |     | 6000W     |     |
|                         | 峰值功率 / Surge Power(20ms)             | 3000VA                                                     |     | 4500VA      |     | 6000VA    |     | 9000VA    |     | 12000VA   |     | 15000VA          |     | 18000VA   |     |
|                         | 波形 / Waveform                        | 纯正弦波逆变器 Pure Sine Wave Inverter                            |     |             |     |           |     |           |     |           |     |                  |     |           |     |
|                         | 输出电压 / Output Voltage                | 100V/110V/120VAC or 220V/230V/240VAC                       |     |             |     |           |     |           |     |           |     | 200V/230V/240VAC |     |           |     |
|                         | 逆变效率 / Inverter Efficiency           | 50Hz/60Hz+/-0.3Hz                                          |     |             |     |           |     |           |     |           |     |                  |     |           |     |
|                         | 主线路模式效率 / Line Mode Efficiency       | > 95%                                                      |     |             |     |           |     |           |     |           |     |                  |     |           |     |
|                         | 切换时间 / Typical Transger Time         | 最高10ms(max)                                                |     |             |     |           |     |           |     |           |     |                  |     |           |     |
| 电压 / Voltage            | 120VAC/230VAC                        |                                                            |     |             |     |           |     |           |     |           |     |                  |     |           |     |
| 交流输入<br>AC Input        | 电压范围 / Voltage Range                 | 96-132VAC/155-280VAC                                       |     |             |     |           |     |           |     |           |     | 155-280VAC       |     |           |     |
|                         | 频率范围 / Frequency Range               | 50/60Hz                                                    |     |             |     |           |     |           |     |           |     |                  |     |           |     |
|                         | 最小启动电压 / Minimum Start Voltage       | 10.0VDC/+10.5VDC for 12VDC mode(*2 for 24VDC,*4 for 48VDC) |     |             |     |           |     |           |     |           |     |                  |     |           |     |
| 电池 / Battery            | 欠压报警 / Low Battery Alarm             | 10.5VDC+0.3V for 12VDC mode(*2 for 24 VDC,*4 for 48VDC)    |     |             |     |           |     |           |     |           |     |                  |     |           |     |
|                         | 欠压保护 / Low Battery Cutoff            | 10.0VDC+0.3V for 12VDC mode(*2 for 24 VDC,*4 for 48VDC)    |     |             |     |           |     |           |     |           |     |                  |     |           |     |
|                         | 过压报警 / High Battery Alarm            | 16.0VDC+0.3V for 12VDC mode(*2 for 24 VDC,*4 for 48VDC)    |     |             |     |           |     |           |     |           |     |                  |     |           |     |
|                         | 过压恢复 / High Battery Voltage Recover  | 15.5VDC+0.3V for 12VDC mode(*2 for 24 VDC,*4 for 48VDC)    |     |             |     |           |     |           |     |           |     |                  |     |           |     |
|                         | 自身损耗 / Idle Conmsumption Search Mode | < 25W 节能模式 When Power Saver On                             |     |             |     |           |     |           |     |           |     |                  |     |           |     |
| 充电 / Charger            | 充电保护电压 / Over charge Protection      | 10A                                                        |     |             |     | 30A       |     |           |     | 40A       |     |                  |     |           |     |
|                         | 最大充电电流 / Max charge Cuttent          | 15.7 VDC for 12VDC Mode(*2 for 24VDC,*4 for 48VDC)         |     |             |     |           |     |           |     |           |     |                  |     |           |     |
|                         | 输入波形 / Input Voltage Waveform        | 35A                                                        | 20A | 45A         | 25A | 65A       | 35A | 75A       | 45A | 30A       | 65A | 35A              | 70A | 40A       | 75A |
| 旁路 / Bypass             | 旁路断路器规格 / Bypass Breaker Rating      | 10A                                                        |     |             |     | 30A       |     |           |     | 40A       |     |                  |     |           |     |
|                         | 最大旁路电流 / Max Bypass Current          | 10Amp                                                      |     |             |     | 30Amp     |     |           |     | 40Amp     |     |                  |     |           |     |

# SGN Low Frequency Power Inverter

## SGN 单相工频逆变器



### 技术参数 Products Specification :

| 型号 / Model                                                    | SGN-35112                                                                                                                                                                                                                                   | SGN-50112 | SGN-10224       | SGN-15224    | SGN-20248       | SGN-30248 | SGN-40248       | SGN-50296 | SGN-60296       | SGN-802192             | SGN-103192      | SGN-153192 | SGN-203384      |  |
|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------|--------------|-----------------|-----------|-----------------|-----------|-----------------|------------------------|-----------------|------------|-----------------|--|
| 额定容量 / Rated Power                                            | 350W                                                                                                                                                                                                                                        | 500W      | 1000W           | 1500W        | 2000W           | 3000W     | 4000W           | 5000W     | 6000W           | 8KW                    | 10KW            | 15KW       | 20KW            |  |
| 电池 / Battery                                                  | 12V/24VDC                                                                                                                                                                                                                                   |           | 24VDC           | 24V/36/48VDC |                 | 48/96VDC  |                 |           | 92/192VDC       |                        | 192/384VDC      |            |                 |  |
| 输入电压 / Input Voltage(V)                                       | 145V ~ 275VAC                                                                                                                                                                                                                               |           |                 |              |                 |           |                 |           |                 |                        |                 |            |                 |  |
| 输入频率 / Frequency                                              | 45Hz ~ 65Hz                                                                                                                                                                                                                                 |           |                 |              |                 |           |                 |           |                 |                        |                 |            |                 |  |
| 输出电压 / Output Voltage(V)                                      | 220VAC ± 2%(电池模式 / Battery Mode)                                                                                                                                                                                                            |           |                 |              |                 |           |                 |           |                 |                        |                 |            |                 |  |
| 输出频率 / Frequency                                              | 50Hz ± 0.5Hz                                                                                                                                                                                                                                |           |                 |              |                 |           |                 |           |                 |                        |                 |            |                 |  |
| 输出波形 / Output Wave                                            | 纯正弦波 / Pure Sine Wave                                                                                                                                                                                                                       |           |                 |              |                 |           |                 |           |                 |                        |                 |            |                 |  |
| 输出波形失真度 / THD                                                 | ≤3%                                                                                                                                                                                                                                         |           |                 |              |                 |           |                 |           |                 |                        |                 |            |                 |  |
| 充电电流 / Charging Current                                       | 5A-15A ( 可调Adjustable )                                                                                                                                                                                                                     |           |                 |              |                 |           |                 |           |                 | 3A-5A ( 可调Adjustable ) |                 |            |                 |  |
| 显示 / Display                                                  | LCD                                                                                                                                                                                                                                         |           |                 |              |                 |           |                 |           |                 |                        |                 |            |                 |  |
| 转换时间 / Transfer Time                                          | < 4ms                                                                                                                                                                                                                                       |           |                 |              |                 |           |                 |           |                 |                        |                 |            |                 |  |
| 环境<br>Environment                                             | 噪音/Noise                                                                                                                                                                                                                                    |           |                 |              |                 |           |                 |           |                 |                        |                 |            |                 |  |
|                                                               | 温度/Temperature                                                                                                                                                                                                                              |           |                 |              |                 |           |                 |           |                 |                        |                 |            |                 |  |
|                                                               | 湿度/Humidity                                                                                                                                                                                                                                 |           |                 |              |                 |           |                 |           |                 |                        |                 |            |                 |  |
| 效率 / Efficiency                                               | ≥80%                                                                                                                                                                                                                                        |           |                 |              |                 |           |                 |           |                 |                        |                 |            |                 |  |
| 保护<br>Protect                                                 | 过载 / Overload<br>过载110%，30秒机器自动关机；过载120%，2秒自动关机；市电模式过载不关机，蜂鸣器发出报警声<br>If overload 110%, the inverter will shut down in 30s, if overload 120%, the inverter will shut down in 2s, the inverter only alarm but doesn't shut down in grid mode |           |                 |              |                 |           |                 |           |                 |                        |                 |            |                 |  |
|                                                               | 短路 / Short Circuit<br>输出短路时，蜂鸣器长鸣，20秒后机器自动关机 / When short circuit happens, the inverter will alarm and shut down after 20s                                                                                                                  |           |                 |              |                 |           |                 |           |                 |                        |                 |            |                 |  |
|                                                               | 电池 / Battery<br>电池高低压保护 / Over voltage and low voltage protect                                                                                                                                                                              |           |                 |              |                 |           |                 |           |                 |                        |                 |            |                 |  |
| 反接 / Reverse<br>电池反接保护(可选Battery reverse protection optional) |                                                                                                                                                                                                                                             |           |                 |              |                 |           |                 |           |                 |                        |                 |            |                 |  |
| 尺寸 / Size(L*W*H)(cm)                                          | 345 × 120 × 165                                                                                                                                                                                                                             |           | 420 × 145 × 215 |              | 405 × 180 × 320 |           | 425 × 200 × 335 |           | 465 × 245 × 465 |                        | 485 × 300 × 655 |            | 600 × 300 × 730 |  |
| 包装尺寸 / Packing Size(L*W*H)(cm)                                | 396 × 170 × 210                                                                                                                                                                                                                             |           | 460 × 190 × 260 |              | 460 × 240 × 380 |           | 490 × 290 × 410 |           | 530 × 310 × 510 |                        | 570 × 390 × 730 |            | 670 × 380 × 930 |  |
| 净重 / NW(kg)                                                   | 7                                                                                                                                                                                                                                           | 8         | 13              | 17           | 20              | 28        | 44              | 50        | 55              | 65                     | 85              | 105        | 125             |  |
| 毛重 / GW(kg)                                                   | 8                                                                                                                                                                                                                                           | 9         | 14              | 18           | 21              | 29        | 46              | 60        | 65              | 75                     | 95              | 115        | 135             |  |



# SD Solar Charge Controller

## SD 太阳能控制器



### 技术参数 Products Specification :

|                                   |                              |                  |                  |                   |
|-----------------------------------|------------------------------|------------------|------------------|-------------------|
| 型号 / Model                        | SD-10                        | SD-20/30         | SD-40/50/60      | SD-30/40/50/60-48 |
| 最大充电电流 / Max Charging current     | 10A                          | 20/30A           | 40/50/60A        | 30/40/50/60A      |
| 系统电压 / System Voltage             | 12/24VDC自动识别 Auto recornized |                  |                  | 48VDC             |
| 全充电电压 / Max Voltage               | 14.0/28.0V                   |                  |                  | 56V               |
| 强充电电压 / High Charging current     | 14.0~15.0V/28.0~30.0V        |                  |                  | 56~60V            |
| 均衡充电电压 / Balance charging current | 14.0~15.5V/28.0~31.0V        |                  |                  | 56~62V            |
| 浮充电电压 / Floating voltage          | 13.0~14.5V/26.0~29.0V        |                  |                  | 52~58V            |
| 过压电压 / Over voltage protect       | 16.5/33.0V                   |                  |                  | 66.0V             |
| 负载低压保护 / Low voltage protect      | 11.2~11.8V/22.4~23.6V        |                  |                  | 44~50V            |
| 负载恢复电压 / Recovery voltage         | 12.5V/24.0V                  |                  |                  | 47.2~53.2V        |
| 电池类型 / Battery Type               | 铅酸电池Lead Acid Battery        |                  |                  |                   |
| 最大光伏电压 / Max PV Voltage           | 55V                          | 55V              | 55V              | 100V              |
| 电池电压 / Battery Voltage            | 12/24V                       | 12/24V           | 12/24V           | 48V               |
| 产品尺寸 / Net Size                   | 13.3*8.5*3.5cm               | 18.8*12*4cm      | 19*15*6.2cm      | 19*13*6.2cm       |
| 内盒尺寸 / Box Size                   | 14.5*9*4cm                   | 21*13*5cm        | 22*16*7cm        | 22*14*7cm         |
| 包装尺寸 / Packing Size               | 50*30*32cm/50pcs             | 54*44*32cm/48pcs | 49*45*42cm/24pcs | 49*45*42cm/24pcs  |
| 包装重量 / Packing Weight             | 11kg                         | 21kg             | 20kg             | 24kg              |
| 环境温度 / Environment                | -10~+60° C                   |                  |                  |                   |
| 质保 / Warantee                     | 1年 / 1 year                  |                  |                  |                   |

# SP Solar Charge Controller

## SP 太阳能控制器



### 技术参数 Products Specification :

|                                    |                         |                         |                         |
|------------------------------------|-------------------------|-------------------------|-------------------------|
| 系统电压 / System voltage              | 12V                     | 24V                     | 48V                     |
| 系统电流 / Max Charging current        | 100A/120A/150A          | 100A/120A/150A          | 100A/120A/150A          |
| 直流负载放电 / DC output power           | 60A                     | 60A                     | 60A                     |
| 空载损耗 / No load consume             | <20mA                   | <30mA                   | <30mA                   |
| 太阳能输入电压 / PV input voltage         | ≤36V                    | ≤55V                    | ≤100V                   |
| 超压保护 / Over voltage protect        | 16.5V ± 1%              | 33.0V ± 1%              | 66.0V ± 1%              |
| 超压恢复 / Over voltage recovery       | 15.0V ± 1%              | 30.0V ± 1%              | 60.0V ± 1%              |
| 均衡充电电压 / Equal voltage             | 14.6V ± 1% (adjustable) | 29.2V ± 1% (adjustable) | 58.4V ± 1% (adjustable) |
| 提升充电电压 / Boost voltage             | 14.4V ± 1%              | 28.8V ± 1%              | 57.6V ± 1%              |
| 浮充电电压 / Float voltage              | 13.8V ± 1%              | 27.6V ± 1%              | 55.2V ± 1%              |
| 过放保护电压 / Low voltage protect       | 11.1V ± 1% (adjustable) | 22.2V ± 1% (adjustable) | 44.4V ± 1% (adjustable) |
| 过放返回电压 / Low voltage recovery      | 12.8V ± 1% (adjustable) | 25.6V ± 1% (adjustable) | 51.2V ± 1% (adjustable) |
| 黑夜识别电压 / Night recognize voltage   | 3.0V ± 1%               | 6.0V ± 1%               | 12.0V ± 1%              |
| 白天识别电压 / Daytime recognize voltage | 7.0V ± 1%               | 14.0V ± 1%              | 28.0V ± 1%              |
| 温度补偿系数 / Temperature compensation  |                         | -4.0mv/°C/2V            |                         |
| 工作温度 / Working temperature         |                         | -25°C ~ +60°C           |                         |
| 防护等级 / IP protect                  |                         | IP30                    |                         |
| 制冷方式 / Cooling way                 |                         | Cooling fan             |                         |
| 外型尺寸 / Size                        |                         | 216mm*203mm*106.8mm     |                         |
| 重量 / Weight                        |                         | 2.5kg                   |                         |

# MPPT Solar Charge Controller

## MPPT 太阳能控制器



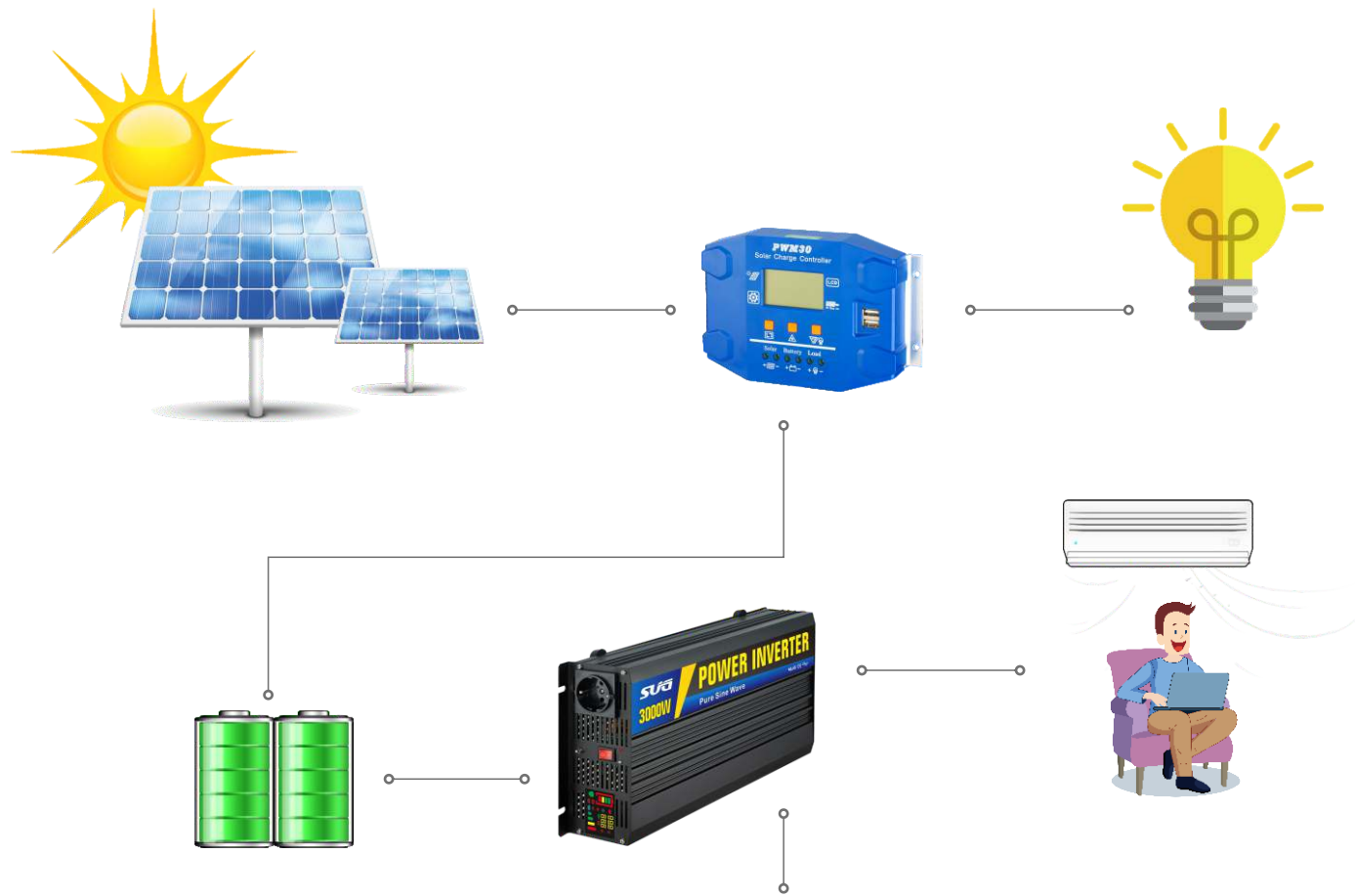
### 技术参数 Products Specification :

| MPPT                          |                                         | 20A                                                                                                                           | 30A                           | 40A                            | 50A                             | 60A                             |                                 |
|-------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|
| 12V/24V/36V/48V-Series        |                                         |                                                                                                                               |                               |                                |                                 |                                 |                                 |
| 产品参数<br>Product Category      | 控制器类型Controller type                    | Controller with maximum power point tracking (MPPT)                                                                           |                               |                                |                                 |                                 |                                 |
|                               | 充电效率MPPT efficiency                     | ≥99.5%                                                                                                                        |                               |                                |                                 |                                 |                                 |
|                               | 空载损耗No-load static loss                 | 0.5W-1.2W                                                                                                                     |                               |                                |                                 |                                 |                                 |
| 输入参数<br>Input characteristics | 最大光伏输入电压 VOC                            | DC150V                                                                                                                        |                               |                                |                                 |                                 |                                 |
|                               | 额定组件功率<br>Solar panel rated input power | 12V system 12V系统<br>24V system 24V系统<br>36V system 36V系统<br>48V system 48V系统                                                  | 260W<br>520W<br>780W<br>1040W | 390W<br>780W<br>1170W<br>1560W | 520W<br>1040W<br>1560W<br>2080W | 650W<br>1300W<br>1950W<br>2600W | 780W<br>1560W<br>2340W<br>3120W |
|                               | 电池类型Applicable battery type             | 铅酸, 胶体电池 Sealed lead acid battery, open lead acid battery (can also customize parameters for other types of battery charging) |                               |                                |                                 |                                 |                                 |
|                               | 充电电流Charging current                    | 20A                                                                                                                           | 30A                           | 40A                            | 50A                             | 60A                             |                                 |
|                               | 充电模式Charging method                     | 三阶段充电: 恒流, 恒压, 浮充 Three stages: constant current (fast charge), constant voltage, floating charge                             |                               |                                |                                 |                                 |                                 |
| 其他<br>Other attributes        | 额定电流Rated load current                  | 40A                                                                                                                           |                               |                                | 60A                             |                                 |                                 |
|                               | 保护功能Protective function                 | 输入和输出电压保护, 反接保护 Input and output over-voltage protection, anti-reverse protection, battery off protection, etc.               |                               |                                |                                 |                                 |                                 |
|                               | 净重Net weight (kg)                       | 2.3                                                                                                                           |                               |                                | 2.6                             |                                 |                                 |
|                               | 毛重Gross weight (kg)                     | 3                                                                                                                             |                               |                                | 3.5                             |                                 |                                 |
|                               | 产品尺寸Product size (mm)                   | 240*168*66                                                                                                                    |                               |                                | 270*180*85                      |                                 |                                 |
| 包装尺寸Packing size (mm)         | 289*204*101                             |                                                                                                                               |                               | 324*223*135                    |                                 |                                 |                                 |



# 离网光伏系统示构图

## Off Grid Solar System Connection



# SEPS Off Grid Solar System

## SEPS 光伏离网系统

离网光伏系统一般由太阳能电池组件组成的光伏方阵、太阳能充放电控制器、蓄电池组、离网型逆变器、直流负载和交流负载等构成。

### 技术参数 Products Specification :

| 型号 / Model                       |                             | SEPS-300                                                                                        |                                             | SEPS-600 |             | SEPS-1000 |             | SEPS-1500 |             | SEPS-2000 |             | SEPS-3000 |             | SEPS-5000 |             |        |     |  |
|----------------------------------|-----------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------|----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|--------|-----|--|
| 逆变器<br>Inverter                  | 输出<br>Output                | 电压 / Voltage                                                                                    | 110V/220VAC                                 |          | 110V/220VAC |           | 110V/220VAC |           | 110V/220VAC |           | 110V/220VAC |           | 110V/220VAC |           | 110V/220VAC |        |     |  |
|                                  |                             | 频率 / Frequency                                                                                  | 50/60Hz ± 3                                 |          | 50/60Hz ± 3 |           | 50/60Hz ± 3 |           | 50/60Hz ± 3 |           | 50/60Hz ± 3 |           | 50/60Hz ± 3 |           | 50/60Hz ± 3 |        |     |  |
|                                  |                             | 额定功率 / Rated Power                                                                              | 300W                                        |          | 600W        |           | 1000W       |           | 1500W       |           | 2000W       |           | 2000W       |           | 2000W       |        |     |  |
|                                  |                             | 输出波形 / Waveform                                                                                 | 纯正弦波 Pure Sine Wave                         |          |             |           |             |           |             |           |             |           |             |           |             |        |     |  |
|                                  | 输入<br>Input                 | 电压 / Voltage                                                                                    | 12V                                         | 24V      | 12V         | 24V       | 12V         | 24V       | 48V         | 12V       | 24V         | 48V       | 12V         | 24V       | 48V         | 24V    | 48V |  |
| 电压范围 / Voltage range             |                             | 10~15V                                                                                          | 20~30V                                      | 10~15V   | 20~30V      | 10~15V    | 20~30V      | 40~60V    | 10~15V      | 20~30V    | 40~60V      | 10~15V    | 20~30V      | 40~60V    | 20~30V      | 40~60V |     |  |
| 保护功能 / Protection function       |                             | 电池欠压, 过压, 过载, 过热, 短路保护 low voltage alarm & shutdown, high voltage shutdown, overload, over heat |                                             |          |             |           |             |           |             |           |             |           |             |           |             |        |     |  |
| 光伏控制器<br>Solar charge controller | 系统电压 / System voltage       |                                                                                                 | 可选电压 12VDC/24VDC/48VDC optional             |          |             |           |             |           |             |           |             |           |             |           |             |        |     |  |
|                                  | 最大充电电流 / Max.charge current |                                                                                                 | 最大充电电流 10A/15A/20A/25A/30A/40A/50A optional |          |             |           |             |           |             |           |             |           |             |           |             |        |     |  |
|                                  | 控制器类型 / Type                |                                                                                                 | PWM / MPPT 可选 optional                      |          |             |           |             |           |             |           |             |           |             |           |             |        |     |  |
| 市电充电<br>Grid charge              | 系统电压 / System voltage       |                                                                                                 | 12V                                         | 24V      | 12V         | 24V       | 12V         | 24V       | 48V         | 12V       | 24V         | 48V       | 12V         | 24V       | 48V         | 24V    | 48V |  |
|                                  | 最大充电电流 / Max.charge current |                                                                                                 | 15A                                         | 8A       | 15A         | 8A        | 15A         | 8A        | 5A          | 15A       | 8A          | 5A        | 15A         | 8A        | 5A          | 8A     | 5A  |  |
| 电池柜容量 / Battery box capacity     |                             | 可定制容量 2*100Ah/ 2*150Ah/ 2*200Ah optional                                                        |                                             |          |             |           |             |           |             |           |             |           |             |           |             |        |     |  |



# SEA Off Grid Solar System

## SEA 光伏离网系统



技术参数 Products Specification :

| 型号 / Model                     |                             | SEA-350                                                                                                                       | SEA-500                              | SEA-1000    | SEA-1500    | SEA-2000    | SEA-3000    | SEA-4000    | SEA-5000 | SEA-7000 | SEA-10000 | SEA-15000 | SEA-20000 |        |
|--------------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------|-------------|-------------|-------------|-------------|----------|----------|-----------|-----------|-----------|--------|
| 逆变器<br>Inverter                | 输出 / Output                 | 额定功率 / Rated power                                                                                                            | 350W                                 | 500W        | 1000W       | 1500W       | 2000W       | 3000W       | 4000W    | 5000W    | 7000W     | 10000W    | 15000W    | 20000W |
|                                |                             | 电压 / Voltage                                                                                                                  | 110/220VAC ± 2%(电池模式 / Battery Mode) |             |             |             |             |             |          |          |           |           |           |        |
|                                |                             | 频率 / Frequency                                                                                                                | 50/60Hz                              |             |             |             |             |             |          |          |           |           |           |        |
|                                | 输出波形 / Wave form            | 纯正弦波 / Pure Sine Wave                                                                                                         |                                      |             |             |             |             |             |          |          |           |           |           |        |
|                                | 直流输入 / DC input             | 电压 / Voltage                                                                                                                  | 12V                                  | 12V         | 24V         | 24V         | 48V         | 48V         | 48V      | 96V      | 96V       | 192V      | 192V      | 192V   |
| 光伏输入<br>Solar input            | 额定电流 / Rated current        | 10A                                                                                                                           | 10A                                  | 20A         | 30A         | 30A         | 50A         | 50A         | 50A      | 50A      | 50A       | 100A      | 100A      |        |
|                                | 光伏最大功率 / Solar max power    | 120W                                                                                                                          | 120W                                 | 480W        | 720W        | 1440W       | 2400W       | 2400W       | 4800W    | 4800W    | 9600W     | 19200W    | 19200W    |        |
| 市电输入<br>Grid input             | 市电输入电压 / Grid input voltage | 73VAC-137VAC或145VAC-275VAC                                                                                                    |                                      |             |             |             |             |             |          |          |           |           |           |        |
|                                | 充电电流 / Charging Current     | 可调 8-15A adjustable                                                                                                           |                                      |             |             |             |             |             |          |          |           |           |           |        |
| 显示方式 / Indicator               |                             | LED+LCD                                                                                                                       |                                      |             |             |             |             |             |          |          |           |           |           |        |
| 转换时间 / Transfer Time           |                             | ≤4ms                                                                                                                          |                                      |             |             |             |             |             |          |          |           |           |           |        |
| 保护功能 / Protection              |                             | 电池欠压, 过压, 过载, 过热, 短路保护 / Low voltage alarm & shut down, high voltage shut down, overload, over load, over heat, short circuit |                                      |             |             |             |             |             |          |          |           |           |           |        |
| 产品尺寸 / Size(L*W*H)(mm)         |                             | 345*210*122                                                                                                                   | 420*145*215                          | 405*180*320 | 425*200*335 | 465*245*465 | 485*300*655 | 580*350*700 |          |          |           |           |           |        |
| 包装尺寸 / Packing Size(L*W*H)(mm) |                             | 385*270*185                                                                                                                   | 460*190*260                          | 460*240*380 | 490*290*410 | 530*310*510 | 570*390*730 | 660*410*740 |          |          |           |           |           |        |
| 净重 / Net Weight (kg)           |                             | 8                                                                                                                             | 9                                    | 14          | 19          | 21          | 29          | 46          | 54       | 64       | 70        | 110       | 115       |        |
| 毛重 / Gross Weight (kg)         |                             | 9                                                                                                                             | 10                                   | 15          | 20          | 22          | 30          | 48          | 60       | 74       | 80        | 123       | 128       |        |

# DT Step up & down transformer

## DT 升降变压器

### DT-100W~10000W STEP UP & DOWN TRANSFORMER

- \* Sockets optional
- \* Carrying handle
- \* Input voltage selector
- \* ON/OFF switch
- \* Fuse/MCB protection
- \* Warranty: one year from delivery

#### Functions

- \* This voltage converter can be used in 110 volt countries and 220 volt countries. It will convert from 220-240 volt to 110-120 volt and from 110-120 volt to 220-240 volt.
- \* Precise input voltage selection according to the country where it is being used.
- \* Input voltage selector: 110V-120V-220V-240 volt
- \* Output: 110/220-120/240 Volt
- \* Suitable for Water Dispenser, Printer Rice Cooker, Fan, Fax Machine, Air Machine, Computer.



#### 技术参数 Products Specification :

| Model    | Capacity | Package Size (cm) | Qty/Package | Item Code |
|----------|----------|-------------------|-------------|-----------|
| DT-100   | 100W     | 41.5×27×38        | 12PCS       | JC0101    |
| DT-200   | 200W     | 41.5×27×38        | 12PCS       | JC0102    |
| DT-300   | 300W     | 48×29×41          | 12PCS       | JC0103    |
| DT-500   | 500W     | 48×29×41          | 12PCS       | JC0104    |
| DT-750   | 750W     | 48×29×41          | 12PCS       | JC0105    |
| DT-1000  | 1000W    | 49.5×33×21        | 2PCS        | JC0106    |
| DT-1500  | 1500W    | 49.5×33×21        | 2PCS        | JC0107    |
| DT-2000  | 2000W    | 49.5×33×21        | 2PCS        | JC0108    |
| DT-3000  | 3000W    | 54.5×33×24.5      | 2PCS        | JC0109    |
| DT-4000  | 4000W    | 54.5×33×24.5      | 2PCS        | JC0110    |
| DT-5000  | 5000W    | 54.5×33×24.5      | 2PCS        | JC0111    |
| DT-7500  | 7500W    | 42.5×33×28        | 1PCS        | JC0112    |
| DT-10000 | 10000W   | 42.5×33×28        | 1PCS        | JC0113    |



# TC Step up & down transformer

## TC 升降变压器

### TC-100W~10000W STEP UP & DOWN TRANSFORMER

1个或者2个插座 One or two socket

配带插头 With one double power core

保险丝保护 Fuse protection

ON/OFF开关 ON/OFF switch

输入电压选择 Input voltage selector optional

### 功能 Functions

升降变压器是用来将220V/110V的电器用于110V/220V的电压的国家和地区。

This kind of product is designed for the electrical appliances with voltage of AC 110/220V used in the area of AC 220/240V, or AC 220/240V voltage used in the area of AC 110/120V. They are for use with all electronic and electrical equipment (up to rated wattage).



| 型号 Model  | 功率 Capacity | 包装尺寸 Package Size(cm) | 包装数量 Qty/Package | 产品编号 Item Code |
|-----------|-------------|-----------------------|------------------|----------------|
| TC-100D   | 100W        | 24 × 20.5 × 19        | 8PCS             | JC0301         |
| TC-200D   | 200W        | 24 × 20.5 × 19        | 8PCS             | JC0302         |
| TC-300D   | 300W        | 24 × 20.5 × 19        | 8PCS             | JC0303         |
| TC-500D   | 500W        | 32 × 17.5 × 26.5      | 6PCS             | JC0304         |
| TC-750D   | 750W        | 32 × 17.5 × 26.5      | 6PCS             | JC0305         |
| TC-1000D  | 1000W       | 32 × 17.5 × 26.5      | 6PCS             | JC0306         |
| TC-1500D  | 1500W       | 46 × 25.5 × 22        | 2PCS             | JC0307         |
| TC-2000D  | 2000W       | 46 × 25.5 × 22        | 2PCS             | JC0308         |
| TC-3000D  | 3000W       | 46 × 25.5 × 22        | 2PCS             | JC0309         |
| TC-4000D  | 4000W       | 31.5 × 23.5 × 27      | 1PCS             | JC0310         |
| TC-5000D  | 5000W       | 31.5 × 23.5 × 27      | 1PCS             | JC0311         |
| TC-7500D  | 7500W       | 40 × 29 × 29          | 1PCS             | JC0312         |
| TC-10000D | 10000W      | 40 × 29 × 29          | 1PCS             | JC0313         |





尚高 带来光和温暖

SUG brings light & warm





地址：浙江省乐清市柳市镇凌云路166号B栋  
电话：0577-62967308 62967309  
传真：0577-62967312  
邮箱：info@sugpower.com  
网址：www.cnsug.com

Add /166#, Lingyun Road, Liushi, Yueqing, China  
Tel / +86-577-62967308 62967309  
Fax /+86-577-62967312  
Skype / Sugmake  
E-mail / info@sugpower.com  
Website / www.sugpower.com