



# POWER SUPPLY

RED EVERYDAY ELECTRICAL  
电源系列产品手册

**中国·天天红电器有限公司**  
CHINA RED EVERYDAY ELECTRICAL CORPORATION LTD



## Brief introduction

中国天天红电器有限公司主要生产稳压电源、电源设备、UPS不间断电源等系列产品。公司拥有现代化厂房总面积15000多平方米，固定资产2000万元，流动资金3000多万元，员工300余人，其中技术人员占20%。

天天红电器有限公司已通过ISO9001质量体系认证和中国电工产品安全认证，拥有电信设备进网许可证。并连续多年获“重合同、守信用单位”、“AAA级信用企业”、“质量信得过企业”、“先进企业”、“明星企业”、“工商联手打假企业”、“稳压电源中国名牌产品”、“名牌商标”、“上海高新产品证书”等荣称。公司产品均由中国保险公司承保。

二000年初与美国麦腾公司合作，成立了上海麦腾电器有限公司，专门从事UPS不间断电源、风力太阳能路灯信号电源、变频电源的研究与生产。公司坚信“以人为本，以科技求发展”。二00二年，公司开发出适应各种中央空调的节能产品—GE智能节能王，节电效果达到了40%以上，取得了良好的社会经济效益。

多年来本公司以优良的品质、优惠的价格、完善的售后服务取得了广大消费者的信赖，产品畅销国内外。热烈欢迎各界人士来电、来函、来人洽谈，愿通过我们真诚地合作，将天天红致力完善的电源事业推向一个新纪元。

## 企业简介

China RED EVERYDAY Electrics Co.,Ltd. IS engaged in the production of regulated power Smpply, power unit, UPS(uninterruptible power supply) and other series products. We have more than 15, 000 sqm modernized factory building, fixed assets 20 million yuan RMB, current assets over 30 million yuan RMB, over 300 staffs, of whom technicians account for 20%.

We have been certified to ISO9001 CCEE. and obtained Network Access License of Telecommunication Equipment. Besides, we are honored as the unit of "Honoring Contract and Abiding by Its Word", "Grade AAA Credit Enterprise", "Quality Trustworthy Enterprise", "Advanced Enterprise", "Star Enterprise", "Enterprise against Counterfeiter with Ind. & Com. Administration .... China Name Brand Products for Regulated Power Supply", "Name Brand", "Highnew Product Certificate of Shanghai City" etc. for successive years. All products made by our company are insured by the People' S Insurance Company of China.

In early 2000, we established Shanghai Merton Electrical Co.,Ltd. jointly with America Merton Electrical Co.,Ltd We are engaged in research and production of UPS(uninterruptible power supply), wind power and solar energy street lamp signal power supply and variable frequency power supply. We insist on "Basing on Talents and Developing on Science and Technology" The company developed a kind of energy-saving product--GE series intelligent energy-saving equipment for various central air-conditioners in 2002. The electricity-economized effect is over 40%. and has obtained good social economic benefits.

OMr products are in great demand both at home and abroad and trusted by vast consumers for high quality, favorable price and perfect after-service. Sincerely welcome the pemons from all circles to negotiate via telephone, correspondence or in person. We hope the power supply indust-of RED EVERYDAY will be impelled into a new epoch through our sincere cooperation.

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## SVC、TND高精度全自动交流稳压器 SVC、TND High-precision Full Automatic AC Voltage Regulator



### ■ 用途

全自动交流稳压器具有体积小、重量轻、输出波形失真小和使用稳定、可靠等优点。可广泛使用任何用电场所，是一种理想的稳压器。使用场合计算机、电视机、空调设备、彩色冲晒系统、立体音响系统、照明系统、用电设备、医疗设备、工业自动化设备。

### ■ Applications

The product is characterise of portable size,light weight,no-lack fidelity in waves.convenienceto use, raliability,ft is an ideal Ac regulating power supply.Computer,TV sets,Air Conditioner equipment,Photographic processing equipment,Broadcasting equipment,Lighting equipment,Electronic devices Medical equipment.Industdal robots.

### ■ 规格 Specification

型号 Model	输入电压 Input Voltage	输出电压 Output Voltage	输出电流(最大) Output Current(max.)	相应时间 Responding Time	工作环境 Operation Condition	效率 Efficiency	体积Bulk cm3 (L × W × H)	重量(kg) Weight (kg)	
SVC-500VA	160~250V 176~264V 187~253V	220V ± 2% 和(and) 110V ± 2%	2A	≤0.5s (输入电压 变化10%时) (when input voltage varys ± 10%)	温度-5℃-40℃ Temperature -5℃-40℃  湿度0-90% Humidity 0- 90% RH	> 95%	17 × 19 × 14	5	
SVC-1000VA			4A				21 × 23 × 16	7.75	
SVC-1500VA			6A				21 × 23 × 16	8	
SVC-2000VA			8A				28 × 25 × 20	12	
SVC-3000VA			12A				31 × 24 × 23	15	
SVC-5000VA			20A				48 × 54 × 23	26	
SVC-7.5KVA		30A	47 × 30 × 23				39		
SVC-10KVA		40A	47 × 30 × 23				42		
SVC-15KVA		60A	47 × 39 × 88				96		
SVC-20KVA		80A	47 × 39 × 88				100		
SVC-30KVA		220V ± 2%	220V ± 2%				120A	66 × 49 × 107	200
SVC-40KVA							160A	66 × 49 × 109	250
CBW-30-300KVA									

## SVC、TND三相全自动交流稳压器 SVC、TND Three Phase Full Automatic AC Voltage Regulator



### ■ 用途

全自动交流稳压器具有体积小、重量轻、输出波形失真小和使用稳定、可靠等优点。可广泛使用任何用电场所，是一种理想的稳压器。

使用场合计算机、电视机、空调设备、彩色冲晒系统、立体音响系统、照明系统、用电设备、医疗设备、工业自动化设备。

### ■ Applications

The product is characterise of portable size,light weight,no-lack fidelity in waves.convenienceto use,raliability,ft iS an ideal Ac regulating power supply.Computer,TV sets,Air Conditioner equipment, Photographic processing equipment,Broadcasting equipment,Lighting equipment,Electronic devices Medical equipment.Industdal robots.

### ■ 规格 Specification

型号 Model	输入电压 Input Voltage	输出电压 Output Voltage	输出电流 Output Current(max.)	相应时间 Responding Time	效率 Efficiency	体积 Bulk cm <sup>3</sup> (L × W × H)	重量(kg) Weight(kg)
SVC-1.5KVA	三相四线 Three-phase four-write 相电压 Line voltage 160~250V 线电压 Phase voltage 277~432	三相四线 Three-phase four-write 相电压 Phase voltage 220V ± 2% 线电压 Phase voltage 380V ± 3%	2A	≤0.5s(输入电压 变化10%时)	>95%	54 × 34 × 18	20
SVC-3KVA			4A			54 × 34 × 18	30
SVC-4.5KVA			6A			54 × 34 × 18	30
SVC-6KVA			8A			38 × 33 × 70	53
SVC-9KVA			12A			40 × 34 × 79	64
SVC-15KVA			20A			47 × 40 × 79	103
SVC-20KVA	三相四线 Three-phase four-write 相电压		30A	≤0.5s(when input voltage varys ± 10%)		53 × 50 × 82	139
SVC-30KVA	Line voltage 176~164 线电压		40A			53 × 50 × 82	143
SVC-40KVA	Phase voltage 304~456		52A			66 × 49 × 107	251
SVC-50KVA			70A			66 × 49 × 107	275
CBW-30-300KVA							

## JJW精密净化交流稳压电源 JJW Precision Purifying AC Regulated Power Supply



### ■ 用途

全新推出的JJW系列精密净化交流稳压电源，具有稳压范围宽、精度高，能长期连续工作。适用各种性质的负载(阻性、感性、容性)等优点。被广泛用于电子计算机、复印机，医疗仪器等现代化电子设备，受到科研单位、工矿企业、计量等部门的欢迎。

### ■ 规格 Specification

型号 Model	JJW-1	JJW-2	JJW-3	JJW-5	JJW-10	JJW-15	JJW-20	JJW-30	JJW-40	JJW-50
输出容量 Output Capacity	1KVA	2KVA	3KVA	5KVA	10KVA	15KVA	20KVA	30KVA	40KVA	50KVA
输入稳压范围 Input Voltage Stabilizing Range	187~253V									
输入适用范围 Applicable Input Range	160~280V									
频率 Frequency										
输出电压 Output Voltage										
电压效应 Source Voltage Effect										
负载效应 Loading Effect										
波形失真 Wave Distortion										
相应时间 Responding Time										
效率 Efficiency										
尖峰吸收 Peak Absorption										
噪音 Noise										
过压报警保护 Over-voltage Alarm Protection										
体积cm <sup>3</sup> (长×宽×高) Bulk cm <sup>3</sup> (L×W×H)	38×16×24	44×17×32	44×17×32	50×20×47	50×20×47	50×35×70	50×35×70	60×42×70	60×42×70	60×50×80
重量(kg) Weight	11.5	19.5	25	33	40	63	70	85	95	105

### ■ Applications

JJW is the newest purifying alternating current power stabilizing instrument. It has wide constant-voltage range, high precision and continuously work. It is suitable for computer, medical equipment, automatic control equipment etc. It is welcomed at factory, company, and department etc.

## SJJW系列精密净化三相交流稳压电源 SJJW Series Precision Purifying Three-phase AC Regulated Power Supply



### ■ 用途

SJJW系列精密净化三相交流稳压电源是由JJW系列单相电源通过“星形”接法组合而成，因此具有单相电源的全部优点，是生产企业、科研单位和医疗卫生领域、各种测试设备、测量设备、电子仪器设备配套的理想稳压电源。

### ■ Applications

SJJW series precision purifying three-phase AC regulated power supply is composed by the star type joints of JJW series single-phase power supply. Thus it possesses all the advantages of single-phase power supply. It's the ideal regulated power supply for the completion of production industry, research institutes, medical and health fields, various testing equipment, measuring equipment and electronic equipment.

### ■ 规格 Specification

型号 Model	SJJW-3	SJJW-6	SJJW-10	SJJW-15	SJJW-20	SJJW-30	SJJW-50	SJJW-80	SJJW-100	SJJW-150	SJJW-200
输出容量 Output Capacity	3KVA	6KVA	10KVA	15KVA	20KVA	30KVA	50KVA	80KVA	100KVA	150KVA	200KVA
输入稳压范围 Input Voltage Stabilizing Range	323~437V										
输入适用范围 Applicable Input Range	280~480V										
频率 Frequency	50Hz ± 5%										
输出电压 Output Voltage	相电压:220V ± 0.5%,线电压:380V ± 1% Three-phase voltage 220V ± 0.5%, Line voltage 380V ± 1%										
源电压效应 Source Voltage Effect	≤0.5%										
波形失真 Wave Distortion	≤5%(附加) ≤5%(annex)										
响应时间 Responding Time	≤50ms										
效率 Efficiency	≥92%(满载) ≥92%(full load)										
尖峰吸收 Peak Absorption	输入3000V/3us尖峰输出 ≤30V input 3000V/3us peak output ≤30V										
体积cm <sup>3</sup> (长×宽×高) Bulk cm <sup>3</sup> (L×W×H)	59×31×79	59×31×79	59×31×79	59×31×79	67×36×87	67×36×87	49×66×107	60×80×148	60×80×148	60×80×168	60×80×168
重量Kg Weight:kg	55	62	70	90	122	130	215	240	265	310	360

## TSD系列伺服交流稳压器 TSD Series Servo AC Voltage Regulator



### ■ 用途

TSD系列伺服式交流稳压器是由DJW系列高精度稳压器经过改装而成的新产品。采用内装式电机，双集成控制具有过欠压保护，过流报警和保护及延时保护功能，体积更小，功能更完善；采用火表式接线，挂壁式安装，造型新颖，使用方便。是家用电器、工业小型设备、医疗设备、办公设备较理想的配用电源。

### ■ Applications

TSD series servo AC Voltage regulator is reformed product from DJW series high precision Voltage regulator. Applying interior motor and double integration Control, it has the functions of over or under-voltage protection, over-current alarm and delaying protection, etc. It also has smaller bulk and more complete performance. The energy meter style wiring, and wall installation have contributed to the novel design and handy use. It is the ideal power supply option for household electric appliance, small industrial equipment and office equipment, etc.

### ■ 规格 Specification

型号 Model	TSD-2000	TSD-3000	TSD-4000	TSD-5000	TSD-7500	TSD-10000
输出容量 Output Capacity	2000VA	3000VA	4000VA	5000VA	7500VA	10KVA
输出电流 Output Current	9A	13.5A	18A	22.5A	34A	40A
输入电压 Input Voltage	140~260V	140~260V	140~260V	150~260V	160~250V	160~250V
输出电压 Output Voltage	220V ± 3% 110V ± 4%					
频率 Frequency	50~60Hz					
延时时间 Delaying Time	短3秒 长4~6分钟 Short3 sec. Long4~6min					
调压速度 Regulating Speed	> 15V/分钟 > 15V/min					
输出欠压保护值 Output Under-voltage Protection Value	182V ± 2V					
输出过压保护值 Output Over-voltage Protection Value	246V ± 3V					
温升 Temperature	小于60°C(满负荷条件下) less than 60°C(Under full load)					
耐压 Withstand Voltage	符合部分标准 Conforms to the standards issued by the ministry					
体积cm <sup>3</sup> (长×宽×高) Bulk cm <sup>3</sup> (L×W×H)	28×18×14	40×26×14	40×27×16	40×27×16	44×28×17	50×30×19
重量Kg Weight:kg	11	15	17	22	27	35

## TZ/HZ系列继电器式稳压器 TZ/HZ Series Relay Type Voltage Regulator



### ■ 用途

继电器系列单相稳压器，它采用双取样、双稳压、时基集成延时时的先进电子自动控制器。具有动作灵敏、定时准确、性能稳定、安全省电、造型美观、结构合理、使用方便、输入电压范围宽等特点。是电冰箱、电视机等高档家用电器唯一良好的保护神。

### ■ 使用场合

照明系统、家用电器、电视机、电冰箱、空调、音响设备。

### ■ 规格 Specification

型号 Model	TZ-1	TZ-2	TZ-3	TZ-5	TZ-10	HZ-1K	HZ-2K	HZ-3K	HZ-5	HZ-10
输出容量 Output capacity	1KVA	2KVA	3KVA	5KVA	10KVA	1KVA	2KVA	3KVA	5KVA	10KVA
输入稳压范围 Input Voltage Stabillizing Range	160 ~ 270V ± 10%									
输入适用范围 Applicable Input Range	160 ~ 270V(超低压125~270V)									
频率 Frequency	50Hz~60Hz									
输出电压 Output Voltage	220V ± 10%									
耐压 Withstand Voltage	1500V									
绝缘电阻 Insuiation Resistance	>2MΩ									
工作环境 Operation Condition	-10°C~+40°C									
过压报警保护 Over-voltage Alarm Protection	≤245V(输出) ± 4V ≤245V(output) ± 4V									
体积cm <sup>3</sup> (长×宽×高) Bulk cm <sup>3</sup> (L×W×H)	13.5×8.5×15	22×15×10	27×25×20	29×22×24	29×22×24	23×11×17	23×11×17	27×25×20	27×22×24	27×22×24
重量Kg Weight:kg	28/20	25/23	30/28	35/38	45/41	48/43	48/43	32/30	32/32	42/38

### ■ Applications

TZ/HZ Series relay type stabitiger adopt double sampling double stabilize, advance electric auto-controller The produce has delicacy action.nicety time,stabilization capability,Safety and safe electricity,beautifully scutpt,in reason structure easy used and wide input volt-age range characteristie etc.

### ■ Use Occasions

Lighting equipnment,family apptiance.Hi Fi equipmen Sound equipment,TV and fan etc.

## KD/SJW系列智能型电力稳压器 KD/SJW Intelligent Type Compensated Electric Power Regulator



### ■ 用途

KD/SJW 系列单、三相系列智能型补偿式稳压器，它集先进的组合绕组补偿方式和功率开关元件控制、微机控制交流稳压技术于一体，具有高效节能、调节快速、三相自动平衡、无机械故障和炭刷磨损并具有延时过、欠压报警和保护等功能。

- 1、采用先进的组合绕组补偿技术，迫性失真小。
- 2、采用单片机控制晶闸管，切换组合进行适时补偿调节，实现了快速无触点调节。瞬时过载能力强 可适用于多种负载。
- 3、采用单片机分相控制 具有延时启动 三相自动平衡调节 三相超限于故障显示、报警和保护等多种功能。

### ■ Applicability

Integrating sophisticated compound winding compensation mode, intelligent type and microcomputer control AC regulating technology, KDBW and KSBW single or three-phase series of microcomputer noncontact compensated electric power regulators have the features of high efficiency, energy-saving, fast adjustment, three phase automatic balance, no machinery malfunction or carbon brush wearing, and have the function of delay, overvoltage alarm and protection.

- 1、Application of advanced compound winding compensation technology ensures little wave distortion.
- 2、Application of one-chip computer control thyristor and replacing combination for timing compensation adjustment enable it to realize fast non-contact adjustment. Strong instantaneous overload capacity enables it to be applicable for diversiform load.
- 3、Applying one-chip computer split-phase control, it has the functions such as delay startup, 3-phase automatic balance adjustment, loss of phase, display of overrun and malfunction, alarm and protection ect.

### ■ 规格 Specification

指标 Index	规格 Model	单相KDJDW3~100KVA	三相KSJW-10~300KVA
输入电压范围	Inpyt Voltage Range	单相电压：220V 线电压 380V ± 15%~ ± 30%(可选择)	
输出电压范围	Output Voltage Range	± 1% ± 5%(可选择)	
效率	Efficiency	>95%	
功率因数	Power Factor	>  ± 0.7	
应变时间	Transformation Time	0.1s~3s(可选择)	
频率	Frequency	50~60Hz	
瞬时过载能力	Instantaneous Overlad Capacity	额定电流的1.5~2倍	

## D/SJC系列智能型净化交流稳压电源 D/SJC Exchange Purification Series Intelligent Power Supply



### ■ 用途 Applicability

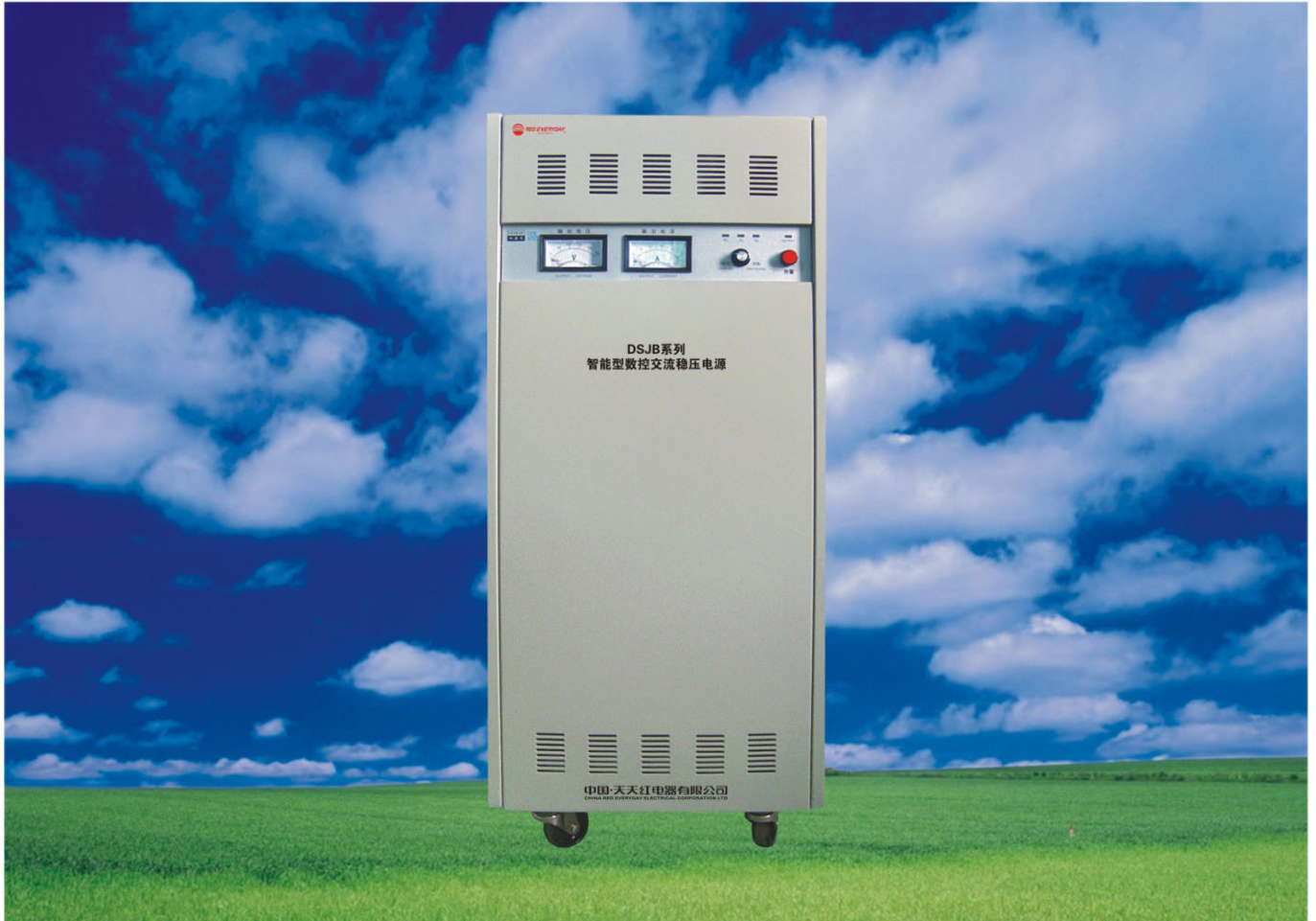
SJC智能型交流净化稳压电源是用单片微处理控制芯片控制的一种高性能电子式交流电源稳压设备，它集净化、稳压、抗干扰和自动保护等多功能于一体，响应速度快、精度高、抗干扰、抗负载冲击能力强，无机械传动装置和无机械触点，因而具有寿命长、噪音低、免维护等优点，它常用于电网电压波动频繁的地区，和对供电电源要求质量较高的用电设备。

### ■ 产品性能 Product Propetry

型号	输入稳压范围	输出电压	负载效应	响应时间	尖峰吸收	过压保护	效率	源电压效应	波形失真	频率	音频噪音
DJC1KVA	单相 187V- 235V ± 1% 三相 323V- 437V	220V ± 1%	≤ ± 0.5%	≤ 40ms	输入 3000V /75us尖 峰输出 ≤ 30V	≤ 245V ± 4V (单相)	50Hz ± 2Hz	≤ ± 0.5%	≤ 3.5% (附加)	≥ 95% (满载)	≤ 30db
DJC2KVA											
DJC3KVA											
DJC5KVA											
DJC10KVA											
DJC15KVA											
DJC20KVA											
SJC3KVA											
SJC6KVA											
SJC10KVA											
SJC15KVA											
SJC60KVA											
SJC100KVA											
SJC180KVA											

## D/SJB系列智能型微机控制交流稳压电源

## D/SJB Series intelligent minrocoputer control AC regulated power supply



### ■ 用途 Applicability

SJB系列智能型微机控制交流稳压电源，是采用了接触器切换调压与净化电源叠加的技术及触点灭弧控制技术而组成的大功率补偿交流稳压电源，故它具有过载能力强，成本低，抗干扰能力好，效率高，可靠性好，使用寿命长等特点，广泛应用于医疗仪器，环保测试，实验室，科研，数控机床，电梯等领域。

### ■ 产品性能 Product Propetry

型号	输入稳压范围	输出电压	负载效应	效率	频率	源电压效应	波形失真	过压保护
DJB10KVA	单相 187V-253V	220V ± 1%	≤ ±0.5%	≥95%	50Hz - 2Hz	≤ ±0.51%	≤1% (附加)	≤245 ± 4V (单相)
DJB15KVA								
DJB20KVA								
DJB30KVA								
DJB50KVA								
DJB100KVA								
DJB60KVA	三相 323V-437V	380V ± 1%						
DJB100KVA								
SJB200KVA								
SJB300KVA								
SJB500KVA								
SJB800KVA								

## WYJ系列直流稳定电源 WYJ Series DC Stabliyed Voltage And Current Power Source



### ■ 产品特点

- 1.WYJ系列为通用型精密直流稳定电源。其中WYJA型采用继电器预先调压.WYJB型采用接触调压器预先调压。
- 2.输出为可调整式。其稳压点。稳流点任意设定。
- 3.稳压与稳流状态可自动转换。
- 4.采用电流限制保护方式，限流点可任意调节。
- 5.有单路/双路，指针表显示/数字表显示。
- 6.双路电源可跟踪，独立，串联，并联四种工作方式。

### ■ Product Feature

- 1.WYJ series is D.C stable power source of commonly used precision model,The WYJA type adopts relay beforhand regulating voltage,The WYJB type adopts The contact voltage regulator beforhand regulating voltage.
- 2.The output is can adjust outiously,The value of vantage-stabilizing and current-stabilizing can wantonly sut up.
- 3.Automatic switching between The voltage stabliylation and current stabliylation.
- 4.Adopts the current limiling protection and the current-limiting point may be optionally controlled.
- 5.With single-way/double-way output.pointers mater/LED meter displays.
- 6.The double-way power source have 4 operation states of the follow-up.indep.series and paralled

### ■ 产品性能 Product property

型号Model	WYJA	WYJB
输出电压 Output Voltage	15、30、45、60V	60、100、150、200V
输出电流 Output Current	1、2、3、5、10、25A	1、2、3、5、10A
输入电压 Input Voltage	220V ± 10% 50-60Hz	
电源效应 Source Cfect	CV ≤ 0.01% + 5mv	CC ≤ 0.1% + 1mA
负载效应 Loading Effect	CV ≤ 0.1% + 15Mv	CC ≤ 0.5% + 30mA

## WYP系列智能型微机控制直流稳压电源 WYP Series Microcomputer Control Intelligent DC Power Supply



### ■ 用途 Applicability

WYP系列直流稳压电源采用了可控硅稳压，变压器隔离全波整流滤波电路，提供高效节能，大电流或高电压，地脉动的直流衍移稳定电源可代替直流发电机，适用于水处理、电镀、游泳、电化处理等加工领域，具有稳压、限压、稳流、限流、过流、过压、保护功能，可长期连续工作。

### ■ 产品性能 Product Propetry

输出电压	15,30,60,100,150,220,300,450,600V		
输出电流	1,3,5,10,20,30,50,100,200,300A		
产品性能	电压调整率 $\leq 5 \times 10^{-4}$	稳流性能	电压调整率 $\leq 1 \times 10^{-3}$
	负载调整率 $\leq 5 \times 10^{-4}$		负载调整率 $\leq 1 \times 10^{-3}$
	波纹 $\leq 5 \times 10^{-3} + 5\text{mV}$ (有效值)		波纹 $\leq 1 \times 10^{-2} + 20\text{mA}$ (有效值)
	温度系数 300ppm/°C(典型值)		温度系数 500ppm/°C(典型值)
输入电压 220V $\pm$ 10电压%			

## SJE系列智能型大功率直流稳压电源 SJE series of intelligent high-power DC power supply



### ■ 用途 Applicability

SJE系列直流稳压电源采用了可控硅稳压，变压器隔离全波整流滤波电路，提供高效节能，大电流或高电压，地脉动的直流衍移稳定电源可代替直流发电机，适用于水处理、电镀、游泳、电化处理等加工领域，具有稳压、欠压、稳流、限流、过流、过压、保护功能，可长期连续工作。

### ■ 产品性能 Product Propetry

输出电压	15,30,60,100,150,220,300,450,500V		
输出电流	3,5,10,20,30,50,100,200,300,400A		
输出功率	1.5,3,4.5,10,15,20,30,40,50KW		
产品性能	电压调整率 $\leq 2\%$	稳流性能	电压调整率 $\leq 2\%$
	负载调整率 $\leq 2\%$		负载调整率 $\leq 2\%$
	波纹 $\leq 3.5\%$		波纹 $\leq 3.5\%$
输入电压 220V $\pm 10\%$ 380V $\pm 10\%$			

## WDA系列发电厂专用水处理大功率直流稳压电源 WDA Series large-power DC Stabilized Voltage Supply For Treatment Of Power Plant



### ■ 用途

本系列产品采用可控硅稳压，变压器隔离全波整流滤波电路，提供高效节能、大电流或高电压、低脉动的直流稳定电源，可代替直流发电机和硅整流电源，适用于水处理、电镀、电泳、电化处理等加工领域，具有稳压、限压、稳流、限流、过流、过压、保护功能，可长期连续工作。

### ■ Applicability

This series of product adopts controllable silicon for voltage stabilizing transformer to isolate full wave rectification filter circuit to provide high-efficiency energy-saving DC stabilized power supply of heavy current, high voltage or low pulsation, it can replace direct current generator and silicon rectification supply and be used in the processing fields including water treatment, galvanization, electrophoresis, and electrochemical treatment, and enjoy such protection functions as the stabilizing and limiting of both voltage and current, and against overcurrent and overvoltage.

### ■ 产品性能 Product Propetry

输入电压 Input Voltage	AC220V/380V ± 10%, 50-60HZ
输出电压 Output Voltage	DC-100, 200, 400, 600V(连续可调)
输出电流 Output Current	DC0-5, 10, 20, 30, 50, 100(稳流/限流)
输出功率 Output Power Kva	1.5, 3, 4, 5, 6, 10, 15, 20KW
电压稳定度 Stabite-Voltage	≤ ± 2%

**KGCA、GCA、ACA、WCA 智能化硅整流高效充电器**  
**KGCA、GCA、ACA、WCA Intellectualsilicon Commuting Highly Effect Charger**



- GCA系列硅整流充电器
- KGCA系列可控硅充电器
- ACA系列全自动充电器
- WCA系列恒流恒压充电器
  
- GCA Servies silicon recificatill charger.
- KGCA Servies silicon controlled rectifier charger
- ACA Servies fully autamatic charger
- WCA Servies constant-current and constant-voltage charge.

**■ 产品性能 Product Property**

型号 Model	KGVA	GCA	ACA	WCA
输入电压 Input Voltage	220V ± 10% 50-60Hz			
输出电压 Ouput Voltage	半波脉动电压 Half-wav pulse voltage 0-100V	全波脉动电压 Fully-wave pulsating voltage 6,12,24,48……96V		
输出电流 Ouput Current	脉动电流 5-50A	Pulse current 5~50A		
充电方式 Charging Modes	手动切换/自动切换 Manual switching/automatic switching			
环境 Operation Condition	温度+10-40℃, 相对湿度80% Temperature Relative humidity			

## BYP系列UPS旁路柜 BYP Series UPS Bypass Power Supply



### ■ 用途

本机由大功率电力稳压器和隔离变压器组合而成，具有自动稳压和手动调压，稳压和直通、过流、短路与过压保护功能，并可配置双路电源输入自动切换，适用于发电厂和大型设备旁路供电系统。

### ■ Applicability

The machine is composed of large power electric voltage stabilizer and isolating transformer with such functions as automatic voltage stabilization, manual voltage regulation, and straight through, protection against over-current, short circuit and over-voltage. It can be assembled with two-way supply input automatic switchover, applicable assembled with two-way supply input automatic seitchover, applicable for power plant and large-scaled equipment bypass power supply system.

### ■ 产品性能 Product Propetry

输入电压 Input Voltage	AC220V/380V $\pm 15 \pm 20\%$ , 50-60HZ
输出电压 Ouput Voltage	AC220V/380V
输出功率 Ouput Power	30, 50, 100, 150, 200~500kVA
电压稳定度 Stabite-Voltage	$\pm 1-5\%$ 可调

## UPS馈线柜 UPS Feeder Counters



### ■ 用途

UPS馈线柜是UPS的负出分配柜，是强电或弱电的总线进来之后再分配到各个终端；可选装输出电压、电流及频率变送器(4~20mA)；断路器状态(各负荷的ON-OFF位置指示及各种装置故障信号)所有报警信号进入DCS系统。开关回路按需要安装。

例电力线的空气开关箱和近来装修用的较多的多媒体配接箱等，在企事业单位、工矿企业、商场、娱乐场所处因容量较大，居家场所就叫馈线箱，通俗叫法(配线箱)！此类产品是特殊定制产品，我们根据客户的要求，确定相应的制造方案。

## SBW、DBW系列自动补偿式稳压器 SBW、DBW Series Automatic Compensated Voltage Stabilizer



### ■ 用途

SBW DBW系列补偿式交流电力稳压器，是我厂吸收西欧先进技术，精心研制节能型新产品，当外界供电网络电压波动或负载变动造成电压波动时能自动保持输出电压的稳定。

本系列产品具有容量大、效率高、负载广泛等优点，可广泛应用于各个领域。

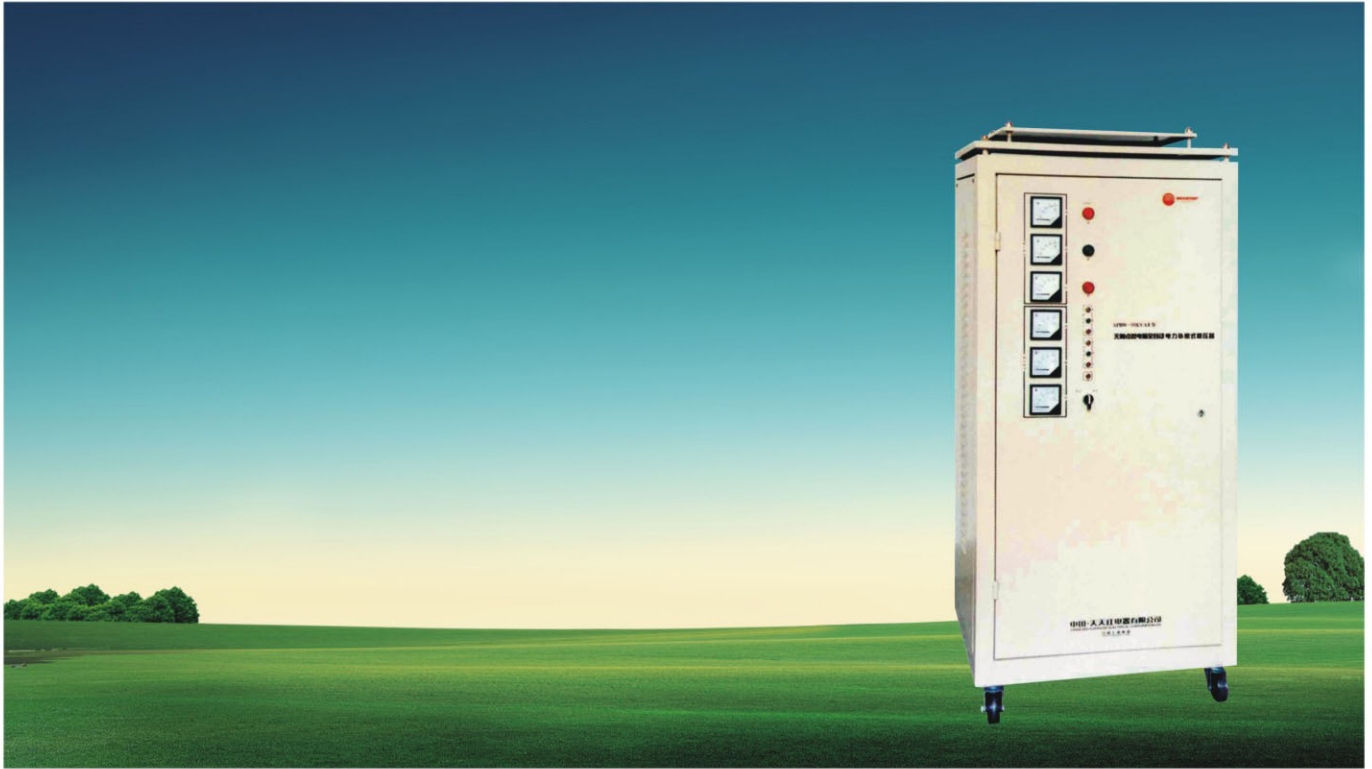
### ■ Applicability

SBW、DBW Series is compensation high power voltage stabilizer which was invented by our factory. It is one of the latest save on energy products in our country. When voltage of electric network is waverd or loading current is changed it can automatically regulate output voltage to ensure is changed it can automatically regulate output voltage to ensure the normal movement of electric quipment.

This equipment possesses the virtues of big eapacity high efficiency and wide load. It can be used in every field.

型号 Model	额定容量 Rated capacity	输出电流 Output current	输入电压 Input voltage	输出电压 Output voltage	相数 Phase NO.	耐压 Withstand voltage	绝缘电阻 Insulation resistance	效率 Efficiency	波形失真 Wave distortion	工作频率 Frequency	稳压精度 Stabile-Voltage
SBW-10	10	15	线电压 304~456V Line-vol	线电压 380V ±5% 可设定	三相 Three phase	2000V 一分钟无 击穿 1min non- pvneture	≥2MΩ	≥98%	无波形失真 non-lack fidelity in wave distortion	50~60Hz	±1~5%
SBW-20	20	31									
SBW-30	30	46									
SBW-50	50	76									
SBW-75	75	114									
SBW-100	100	152									
SBW-150	150	227									
SBW-180	180	273									
SBW-225	225	342									
SBW-320	320	485									
SBW-400	400	606									
SBW-500	500	757									
SBW-600	600	909									
SBW-800	800	1212									
SBW-1000	1000	1515									
DBW-20	20	91	相电压 176~264V phase-vol	相电压 220 ± 5% 可设定 phase-vol 220 ± 5% can set	单相 single phase	1500V 一分钟无击 穿 1 min non- pvneture					
DBW-30	30	136									
DBW-50	50	227									
DBW-80	80	455									
DBW-100	100	682									
DBW-150	150	909									
DBW-200	200	364									

## SPW无触点微电脑全自动电力补偿式稳压器 SPW Series Non-contact Full Automatic Electric Power Compensated Voltage Regulator



### ■ 用途

SPW系列无触点微电脑全自动电力补偿式稳压器，采用单片控制、晶闸管无触点切换补偿稳压器与数字微电脑控制交流稳压技术于一体，具有高效、节能、调节快速、三相分别进行稳压、输出自平稳，无机械故障和碳刷磨损，具备自诊断、自保护、自恢复、过电压、欠电压、过电流、缸相、故障报警等保护功能，设有智能接口，远端监控。主要应用于广播电视系统、微波通信无人值守站、工业控制机，计算机系统，工业设备，电梯配套等需要稳压供电的场所。

输入电压  
Input voltage

### ■ Applicability

TSPW series non-contact full automatic electric power compensated voltage regulator adopts one-chip control, integrating transistor non-contact switching compensated voltage regulator and digital micro-computer control AC regulating technology. It has the features of high efficiency, energy-saving, fast adjustment, three-phase separate voltage regulation and output automatic balance, no machinery malfunction or carbon brush wearing, and have the defective functions of self-diagnosis, self-protection, self-healing, over-/under-voltage, over current, shortage of phase, malfunction alarm, and has intelligent interface and remote end monitoring, including intelligent interface and distant end monitoring. It is widely applied to broadcast & television system, microwave telecommunication unattended station, industrial controlling machine, computer system, industrial equipment, and lifting matching and other occasions where requiring regulated power supply.

### ■ 产品性能 Product Property

输入电压 Input Voltage	单相176-264V，三相线电压304-456V，相电压176-264V Single phase 176-264V, three phase 304-456V, phases voltage 176-264V	波形失真 Wave Distortion	< 2%
输出电压 Output Voltage	单相220V，三相线电压380V，相电压220V Single phase 220V, three phase 380V, phases voltage 220V	频率 Efficiency	50Hz-60Hz
稳压精度 Stabile-voltage	± 2.5%	负载功率因数 Power Factor	>  ± 0.7
效率 Efficiency	> 95%	瞬时过载能力 Instantaneous Overlad Capacity	额定电流的倍1.5-2倍
应变时间 Transformation Time	0.2-0.5S	环境温度 Operation Condition	-15-40°C

## 天天红牌CT医疗系统专用电源 Red-everyday Type Ctmedical Special Power Supply



### ■ 用途

天天红电器有限公司是生产各种稳压电源厂家，近年来相继设计推出新颖、功能齐全、集稳压、变压、隔离、多路输出、保护为一体的CT医疗系统专用稳压电源系列。

无论是美国PK1200、GE9800、900、1600、1800日本东芝300S、300EZ日立W550、450飞利浦CK、CX、CT系列对电网电压要求均需配置CT机专用稳压电源，选用我公司天天红牌高品质的CT电源可满足CT机运行无误。

我们办事投入全心，与我们合作使您放心。

### ■ Applicability

Red-Everyday equipment Co., Ltd. is a factory that produce power supply products. In recent years one after another design elect novel function output and protection merge into an organic whole, CT medical special power supply series.

No matter who American, PK1200, GE9800, 9000, 1600, 1800 Japan ToshiBa 300S 300EZ HiTACHI 550, 450, PHILIPS CK, CX, CT mechanism series even need provide CT medical special power supply, elect Red-everyday Company high quatlity CT special power supply.

Can satisfy the needs of CT mechanism is in safely motion.

### ■ 技术参数 Technical Parameter

功率 Power KVA		输入电压 Input Voltage	输出电压 Output Voltage	稳压精度 Stabile-Voltage	效率 Efficiency	相应时间 Responding Time	保护 Protection
单相 380V Single Phase Dbw	三相 380V Three Phase Sbw	三相 380 ± 20%	根据各种CT机的 电压要求 Can be made according to CT mchanism requirements	± 1%~5%可调 Can regulate	<95%	0.5S(从空载到 CT机满载) 0.5S(from noload to overload)	延时、过压自 动保护 Delay Time over-voltage auto-protection
30	30	Three phase 380 ± 20%					
35	40						
40	50						
50	60	单相 220 ± 20%					
60	80	Single phase 220 ± 20%					
80	100						
100	120						
120	150						

## INV系列正弦波逆变器 INV Series Sine Wave Inverter Supply



### ■ 产品特性和性能

INV系列逆变器主要针对邮电，铁道，电力系统内将直流电源供电给交流设备使用的静止正弦波逆变器，隔离变压器输出使逆变器具有超强的过载能力：

适用于：电力设备、通讯系统、服务器和计算机网络等系统。为其提供更高级别的电力电源；在交流异常或滞留耗时自动切换到滞留，交流供电。从而在更高程度上保证了系统的安全。

### ■ Changing Texing Hexing Neng

INV series inverter supply is the static sine wave one mainly for posts and telecommunications, railway and electric system in which DC power is supplied for AC equipment. The isolating transformer output makes inverter own superstrong overload capacity. This series is applicable for many systems such as power equipment, communication system, server and computer network and provides higher-grade electric power supply for them. While AC is abnormal or DC is used up, it will automatically switch into DC/AC power supply so as to ensure the safety of the system on higher degree.

### ■ INV系列正弦波逆变器 500VA~40KVA INV Series Sine Wave Inverter Supply 500VA~40KVA

型号 Model	INV 500VA	INV 1KVA	INV 2KVA	INV 3KVA	INV 5KVA	INV 10KVA	INV 15KVA	INV 20KVA	INV 30KVA	INV 40KVA
额定功率 Rated power	400W	800W	1600W	2400W	4000W	8000W	12000W	16000W	24000W	32000W
直流输入电压	24VDC(20~30VDC)			48VDC(40~60VDC)			110VDC(90~130VDC)			
DC input voltage							220VDC(170~260VDC)			
工作方式 Working	主流旁路主供电、直流逆变备用;直流逆变主供电、交流旁路备用;自动切换。 While AC bypass mainly supplies electricity, DC inversion is for standby, while DC inversion mainly supplies electricity, DC bypass is for standby; automatic swithing.									
旁路输入电压(AC) Bypass input voltage(AC)	220V ± 20%									
旁路输入频率(HZ) Bypass input frequency(Hz)	50 ± 2.5Hz									
输出性能 output	电压(AC) Voltage(AC)	220 ± 2%								
	频率 Frequency	50Hz ± 0.5%								
	波形 Wave form	正弦波 Sine wave								
	波形失真 Wave distortion	THD<3%(线性负载时) THD<3%(Linear load)								
	功率因数 Rated power	0.8滞后								
动态电压瞬变范围 Transient range of dynamic voltage	3: 1.适用于整流性负载									
电流峰值系数 Current peak coefficient	0~100%负载变化, < ±6% 0~100%load change, < ±6%									
过载能力 Overload capacity	超过120%额定负载时, 机器能报警, 关机 While exceeding 120% rated load, the machine can alarm and close.									

## HDN全自动逆变器 HDN Full Automatic Inverter



### ■ 用途

本机采用进口专用集成电路 脉宽调制, 具有应变快、抗干扰、抗雷击, 性能可靠, 自动稳频稳压、空载损耗低, 尖峰电压吸收和软启动功能, 应用性、实用性强 能帮你解除停电之扰。

### ■ Applicability

The product consist import special-purpcseic, pulse widif modulation(PWM)technique,It has high speed od responding, Resese disturbance and lighting protection.It is a power supply of high reliability.It has kinds of functions,such as automatic Voltage and frequency-stabiliged soft starting.Low Loss,peak voltage absorbness,and so on.It has strong practice,It can help you get rid of trouble stopping electricity.

### ■ 产品性能 Product Property

型号 Modle	充电输入电压 Input Voltage	充电电压 Charge Voltage	输出电压 Output Voltage	应急维持时间 Contingency Time
HDN-200	220V ± 10%	可以调节, 长时间充电时不能大于10A Can adjust.The current isn't bigar than 10A if it	220V ± 10%	与电瓶容量成正比和所用负载功率成反比 the direct ratio with storage capsblity the inverse ratio with load power
HDN-300				
HDN-500				
HDN-800				
HDN-1000				
HDN-1500				
HDN-2000				
HDN-3000				
HDN-4000				
HDN-5000				
HDN-10000				

## TDGC<sub>2</sub>、TSGC<sub>2</sub>单相、三相接触调压器 TDGC<sub>2</sub>、TSGC<sub>2</sub> Single-phase Three-phase Contact Voltage Regulator



### ■ 主要技术参数

- 1、调压器的基本参数按表1规定
- 2、调压器额定(输出)容量：调压器额定容量按下列计算：  
 $P = mI_2 \times U_2 \times 10(KVA)$   
m-相数，单相m=1，三相m=3  
I<sub>2</sub>-额定输出电流(A)U<sub>2</sub>最大输出电压(V)（三相为线电压）
- 3、调压器绝缘等级：调压器绝缘等级为A级，线圈平均温升限值为60℃
- 4、过负荷能力，调压器允许短时间超过额定输出电流值，但不能超过表2的规定

### ■ 规格 Specification

型号 Model	额定容量 Rated capacity	相数 Phase NO.	额定频率(Hz) Rated Frequency	额定输入电压(V) Rated Input Voltage	输出电压范围 Output Voltage Range
TDGC2M-0.5	0.5	1	50	220	0~250
TDGC2M-1	1				
TDGC2M-2	2				
TDGC2M-3	3				
TDGC2M-5	5				
TDGC2M-7	7				
TDGC2M-10	10				
TDGC2M-15	15				
TDGC2M-20	20				
TDGC2M-30	30				
TDGC2M-3	3	3	50	380	0~430
TSGC2M-6	6				
TSGC2M-9	9				
TSGC2M-15	15				
TSGC2M-20	20				
TSGC2M-30	30				
TSGC2M-40	40				

### ■ MAIN TECHNICAL PAMETER

1. Basle technical parameter see table
2. Voltage regulator rated capacity in accordance with fallouing formula count:  
 $P = mI_2 \times U_2 \times 10(KVA)$   
P-rated Capacity(KVA)  
m-phase number, Single phase m=1, three phase m=3  
I<sub>2</sub>-rated output current(A)  
U<sub>2</sub>-max output voltage(V)(three phase is line voltage)
3. Insulation grade: class A insulation, coil mean temperature rising less than 60℃
4. Ouerload capacity: Approve stand instant over-current but does not stipulation of exceed table 2.

型号 Model	额定容量 Rated capacity	相数 Phase NO.	额定频率(Hz) Rated Frequency	额定输入电压(V) Rated Input Voltage	输出电压范围 Output Voltage Range				
DTW-10KVA	10	1	50	220	0~250				
DTW-15KVA	15								
DTW-20KVA	20								
DTW-30KVA	30								
DTW-50KVA	50								
DTW-100KVA	100								
DTW-150KVA	150								
DTW-200KVA	200								
STW-30KVA	30					3	50	380	0~430
STW-50KVA	50								
STW-80KVA	80								
STW-100KVA	100								
STW-150KVA	150								
STW-200KVA	200								
STW-300KVA	300								
STW-400KVA	400								
STW-500KVA	500								
STW-600KVA	600								

## BK(DK)系列控制变压器 BK(DK) Seris Control Transformers



### ■ 用途

BK系列机床控制变压器(以下简称变压器)适用50~60Hz电压至500V的电路中,通常用作机床控制电器或局部照明灯及指示灯的电源只用。

### ■ 结构特征

BK变压器按结构可分为壳式,按安装方式可分为立式。

### ■ 使用环境

- a、周围空气温度-5℃至+40℃,24小时的平均值不超过+35℃;
- b、安装地点海拔不超过2000m;
- c、大气相对湿度在周围空气温度为+40℃时不超过50%在较低温度下可以有较高的相对湿度,最湿月的平均最大湿度为90%,同时该月的月平均最低温度为+25℃,并考虑到因温度变化发生在产品表面的凝露。

### ■ 型号及其含义 Model description



### ■ Applications

BK(DK)series machine tool control transformer are applicable it is can b e used as the power supply,Thecontrol circuit of machinc tool or partial light Lamp and indicate Lamp for general electric appliances.

### ■ Construction

BKtransformers in accordance with structural classity is stall type, and with install way is upright

### ■ Use Ambient

- a.Ambient temperature -5℃~+40℃,mean value+35℃/24 hour.
- b.Install place altitude does not exceed 2000m above sea level
- c.Ambint humidity does not exceed50% in the air Temperature is +40℃,when air Temperature down also the humidity is can higher, when the mean ambint temperature is +25℃,the humidity does not exceed 90%.

### ■ 产品性能 Product Propetry

型号 Model	外形尺寸 Overall dimensions			安装孔距 Instance hole		安装孔K×J install hole
	Bmax	Dmax	Emax	A	C	
BK-50	86	95	93	70±0.4	50±3	5×12
BK-100	100	110	113	85±0.4	60±2.5	6×12
BK-150	100	125	113	85±0.4	66±2.5	6×12
BK-250	160	107	137	100±0.4	80±3	9×11.5
BK-300	160	107	137	100±0.4	80±3	9×11.5
BK-400	160	143	137	110±.04	92±3	9×11.5
BK-500	160	143	137	110±0.4	92±3	9×11.5
BK-700	160	160	137	110±0.4	102±3	9×11.5
BK-1000	160	180	137	150±0.4	100±3.5	9×11.5
BK-1500	160	240	137	160±0.4	132±3.5	9×11.5
BK-2000	184	270	145	160±0.4	132±3.5	9×11.5

## SG、ZSG系列三相干式整流变压器 SG、ZSG Seris Control Transformers



### ■ 用途

我公司多年来采用优质材料和先进的工艺技术专业生产160VA到600KVA之间, SG系列三相干式变压器, 是我公司参照西门子公司同类产品最新研制开发数控系统用变压器, 尤其160VA-16KVA之间的三相干式变压器, 它们的外形和安装尺寸已经标准化, 与西门子4AP系列通用, 产品符合VDE0550、IEC439、JB5555、GB5226等国际、国家标准。

SG系列三相干式变压器广泛适用于交流50~60Hz, 输入、输出电压不超过500V的各种三相供电场合。产品的各种输入、输出电压的高低, 联接组别、调节抽头的多少及位置(一般为 $\pm 5\%$ )、绕组容量的分配、次级单相绕组的配备、整流电路的运用, 是否要求带外壳等, 均可根据用户的要求进行精心的设计与制造。

ZSG系列三相干式整流变压器供整流设备、整流后作充电、电压调节及直流电源使用。

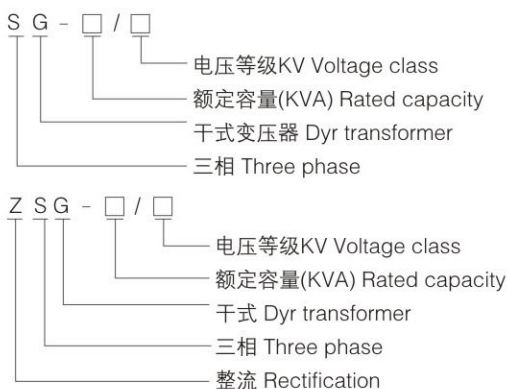
### ■ Applicability

SG series dry transformer is refer to Seimens company Same producte empoldered and prouuced digital control system use's transformer, especially 160VA-16KVA three phase dry transformer it's overall and install dimension had standsrdized offer Seimens 4AP series in common use,The producte accord wiht VED0550,IEC439, JB555, GB5226 atc, international standard and national standard.

SG series three phase dry transformer widely used many Kind three phase transformerr power supply of A.C 50-60Hz,input and output voltage does not exceed 500V,make up line.tap and place of regulates voltage(same as 5%).distribute .of coilcapacity, provide of secondary single phase rictification circuit put to use.whether make up cabinet ect.can be design and made according to use'requirements.

ZSG serise three phase dry transformer supply rectification equipment used to charge regulator voltage D.C power supply.

### ■ 型号及其含义 Model description



### ■ 产品性能 Product Propetry

型号 Model	外形尺寸 Overall dimensions			安装尺寸 Instance dimension		安装孔 Instance hole		备注 Notes
	Bmax	Dmax	Emax	A	C	K×J	螺孔	
SG-160	124	64	139	90	49	5×8	M4	
SG-250	151	67	162	113	49	6×12	M5	
SG-400	151	82	162	113	64	6×12	M5	
SG-630	180	83	188	136	56	7.4×13	M6	
SG-1000	180	102	188	136	76	7.4×13	M6	
SG-1600	229	123	217	176	94	7.4×13	M6	
SG-2500	262	138	248	200	101	10×18	M8	
SG-4000	300	154	277	224	118	10×18	M8	
SG-6300	361	169	316	264	138	10×18	M8	
SG-10000	420	185	366	316	141	12×18	M10	
SG-16000	480	194	411	356	155	15×22	M12	

## S9-10KV-35KV电力变压器

### S9-10KV-35KV Power Transformer



#### ■ 用途

本部分产品分低压400V的配电变压器和低压3150~11000的电力变压器。

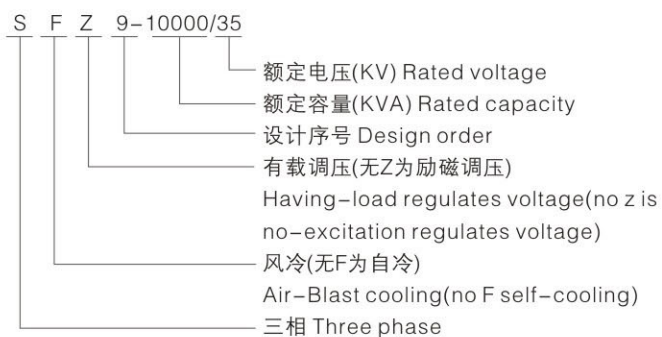
设计序号为“8”和“9”型产品，调压为有载调压和无励磁调压。

#### ■ Applicability

The product be classified as low voltage distribution transformer and tow voltage 3150-11000 power transformer

Design order No and No 9 product,regulates voltage under having-load regulates voltage and no-excitation regulates voltage.

#### ■ 型号及其含义 Model description



#### ■ 产品性能 Product Property

S9-10KV-35KV电力变压器 S9-10KV-35KV Power transformer	
S9-50/10-35KV	800/10-35
S9-100/10	1000/10-35
S9-125/10	1250/10-35
S9-160/10	1600/10-35
S9-200/10	2000/10-35
S9-250/10	2500/10-35
S9-315	3150/10-35
S9-400	4000/10-35
S9-500	5000/10-35
S9-630	6300/10-35

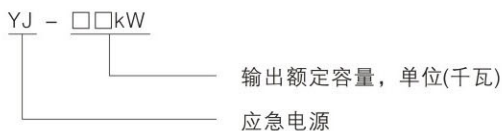
## YJ系列应急电源 YJ Series Emergency Power Supply

### ■ 用途

产品特点General:

- 1、采用最新IGBT逆变技术;
  - 2、采用集中供电模式, 无需特殊灯具;
  - 3、应急供电时, 正弦波交流电输出, 稳压、稳频、无噪音、无公害;
  - 4、可消防联动, 可计算机监控, 可消防中心控制;
  - 5、隔离变压器输出;
  - 6、LCD液晶显示。
1. Adopt the latest IGBT inversion technology;
  2. Adopt concentmtng power supply mode, and no special lamp is needed.
  3. Sinusoidal wave AC output when emergence power supply is required, voltage and frequency stabilization, noiselessness and nuisance free;
  4. Interlinked with fire fighting, monitored with computer. and centml control of fire fighting;
  5. insulating transformer output
  6. LCD(liquid crystal display)

### ■ 型号说明 Type designation



说明: 安装形式、输入相数路数、备用时间、消防联动、输出回路数均在订货时说明。

注: 上述输出额定容量KW是指在功率因数在0.8时的输出功率。

### ■ 产品优点Advantage:

- 1、设计简单, 施工方便;
  - 2、综合造价低, 节省投资;
  - 3、寿命长, 主机寿命20年以上;
  - 4、免维护电池, 可循环使用300~500次;
  - 5、管理简单, 自动瞬间切换, 可无人值守;
  - 6、保持照度稳定, 工作可靠, 维护简便。
- 1.Simple design and convenient construction;
  - 2.Low comprehensive cost saves investment;
  - 3.Working lifo of main engine is more than 20 years for long sewice life.
  - 4.Maintenance free banery,which can be recycled for 300-500 cycles;
  - 5.Simple management,automatic and instant switching,and un necessa~to keep watch;
  - 6.Stable illumination,reliable working,and simple and conveyent maintenance



- ①LCD液晶显示器: 显示主电电压、输出电压、输出电流、电池电压、保障类型。
- ②主电指示灯当正常交流电接通时, 显示绿灯, 表示在正常电网供电状态。
- ③应急指示灯: 当主电电压过低、停电, 显示红灯, 表示在EPS应急供电状态。
- ④充电指示灯充电器对蓄电池充电, 显示红灯, 表示正在充电状态。
- ⑤故障指示灯。黄色显示灯亮时有以下原因
  - A、逆变器温度过高
  - B、输出短路, 警告你应急电源工作中输出支路有开路或短路现象
  - C、应急控制电路的开路、短路。
  - D、充电器故障或者输出开路、短路。
- ⑥切换键: LCD显示菜单切换键。

## ZMT-48通信电源系列

### ZMT-48 Power Line Communications



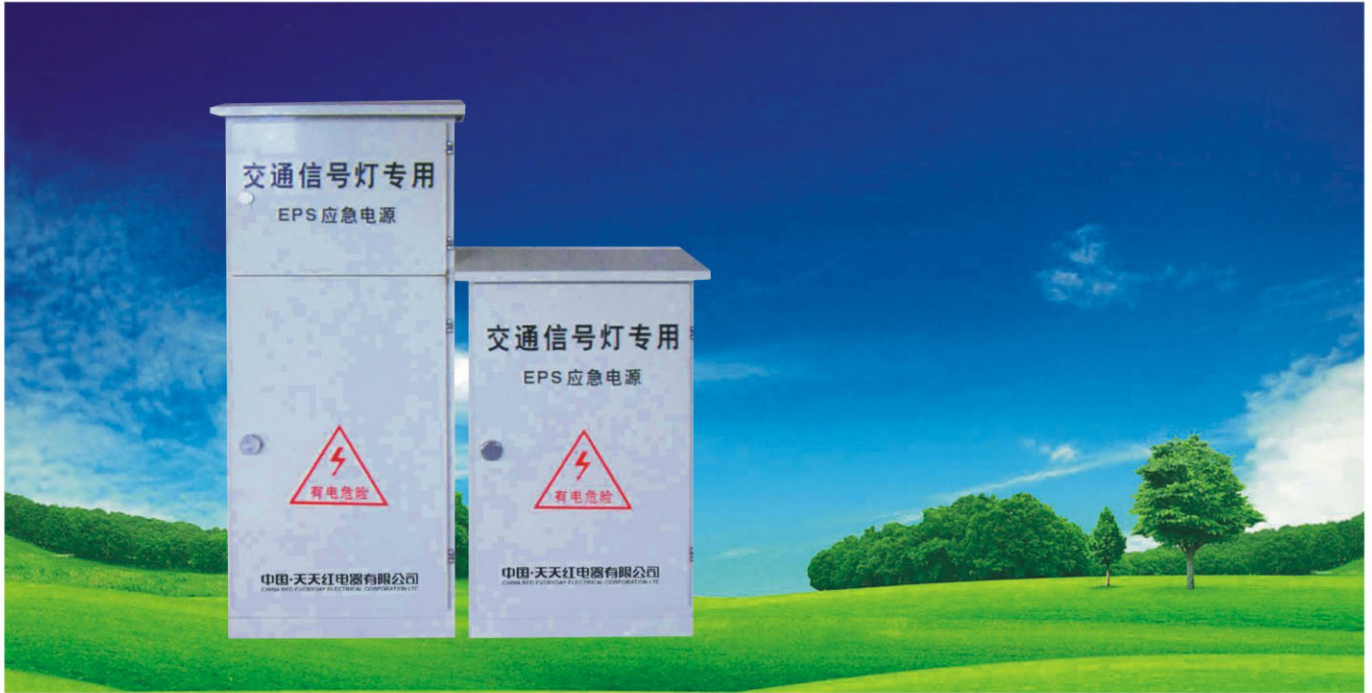
#### ■ 用途 Applicability

ZMT-48系列通信电源，采用二次整流器输出，有源功率因素校正，软开关技术，模块化设计，LCD或液晶显示整流器版工作状态和工作参数。体积小重量轻，安装维护方便。

#### ■ 产品性能 Product Propetry

型号	电压	频率	功率因数	电压	电流	最大保护			尺寸H×W×D	重量
ZMT 48/10	单相 220V ± 30%	45~65Hz	≥0.99	直流0~48V (-40V~-60V 连续可调)	0-11A	650W	≤1mV	≤20mV	150×150×350	4kg
ZMT 48/20					0-22A	1300W			150×150×350	6kg
ZMT 48/35					0-38A	2400W			200×150×400	8kg
ZMT 48/50					0-55A	2900W			200×150×400	10kg
ZMT 48/100					0-110A	6000W			200×100×450	25kg

## EPS路灯自动不间断信号电源 EPS Road Lamp Automatic Uninterrupted Signal Power Supply



### 产品特点

- 1.采用最新IGBT
- 2.采用集中供电模式
- 3.应急供电时，正弦交流输出、稳压、稳频、无噪音、无害。
- 4.隔离变压器输出。

### 产品优点

- 1.设计简单、施工方便、综合造价低，节省投资。
- 2.寿命长，主机寿命20年以上。
- 3.免维护电池，自行管理。
- 4.管理简单，自行切换，可无人值守。
- 5.电池电压过低、过载；EPS故障自动报警。

### 使用环境

- 1.温度：0~40℃
- 2.相对湿度：30%~90%无结露
- 3.海拔高度：< 1000米(每增加100米功率降额1%，最大4000米)

### 产品性能 Product Property

型号 Model	额定容量 Rated Capacity	交流输入DC INPUT		交流输出DC OUTPUT								电池Battery		
		输入电压 Input Voltage	频率范围 Input voltage	输入电压 Output Voltage	电压精度 Voltage Precision	频率 Frequency	波形 Wave	过载能力 Overload Ability	功率因数 Power Factor	峰值系数 Peak Factor	瞬变范围 Transient Range	充电时间 Charging Time	数量 Quantity	直流电压 DC Voltage
EPS-1KVA	800W	单进单出 交流输入 220VAC ± 20%	50/60Hz ± 0.5%	220V	± 2%	50/60Hz 频率精度 ± 5% (市电供电 时与市电 同步)	正弦波 THD小于 3%(线性 负载)	120%额定 电流 5秒后自 动 (BYPASS) 关断	0.8滞 后	3:1适 合于整 流性负 载	0~100% 负载变 化，± 40%	充电时 间：7-16 小时内充 电90% 20-24小 时内充电 90%	4	48V
EPS-2KVA	1600W												8	96V
EPS-3KVA	2400W												10	120V
EPS-5KVA	4000W													192V
EPS-6KVA	4800W													192V
EPS-10KVA	8000W												16	192V
EPS-15KVA	12000W													192V
EPS-20KVA	16000W													192V
EPS-30KVA	24000W												30	360V
EPS-40KVA	32000W												32	384V

### Features

1. Adopting latest IGBT
2. Adopting centralized power supply mode
3. Sine AC output and stable voltage and frequency without noise or harm while using emergency power supply.
4. Isolating transformer output

### Advantages

1. Simple design, convenient construction, low comprehensive cost, and saving investment
2. Durability, The life of host machine exceeds 20 years.
3. Simple management, self switching and watchman free.
4. Simple management, self switching and watchman free.
5. Automatic alarming in case of undervoltage of batteries, overload, of EPS failure.

### Use environment

1. Temperature: 0~40℃
2. Relative humidity: 30%~90% no condensation
3. Height above sea level: < 1000m (power will reduce at the rate of 1% when increasing per 100m, max, 4000m)

## GE 系列智能节电电源 GE Series Energy-Saving Equipment



### ■ 产品特性和性能

GE系列智能节电王是专门用于水泵、风机和中央空调系统节能降耗的高科技产品。本产品采用现行最先进、最有效的工业驱动控制方式和国际上最先进的工业驱动控制单元，组成闭环调节系统，达到节能之目的。GE智能节电王不仅适用制冷或制热独立的中央空调系统，同时还适用热泵机组的中央空调系统。

GE智能节电王通过自主开发的节电优化控制程序，采用以微电脑为核心的智能控制检测装置，PID闭环控制方式。电机运行参数优化技术，使整个系统保持在最佳节能运行状态，节电率在40%以上。良好的人工操作界面有效的提高了系统的可操作性。

GE智能节电王具有降速运行和软启动，减少了振动、噪音和磨损。延长了设备维修周期和使用寿命，并减少了对电网冲击，提高了系统的可靠性。GE智能节电王具有各种保护措施，使系统的运转率和安全可靠性大大提高。

GE智能节电王与原控制系统互锁，可选择节能运行或常规运行，且在GE智能节电王检修或故障时，原常规控制系统照样可以正常运行。

### ■ Channing Texing Hexing Neng

and unit of Industrial driving-control to form a closed-loop regulation system and reach the purpose of energy-saving. GE series intelligent energy-saving equipment is not only applied in independently refrigerating or heating central air-conditioner system, but also in central air-conditioner system of heating-pump unit.

GE series intelligent energy-saving equipment applies optimized energy-saving control software, intelligent control device with microprocessor, PID closed-loop controlling and optimized running data of motor so as to keep the system in optimal saving-energy state. The electricity saving rate is over 40%. The favorable operation interface improves maneuver-ability effectively.

Deceleration running and soft start of GE series intelligent energy-saving equipment reduces the vibration, noise and abrasion, pro-longs its maintenance period and working life. Furthermore, it may reduce the impact on power network to improve the security of system.

Various kinds of safeguards of GE series intelligent energy-saving equipment highly improve the running rate and safe reliability of the system.

For GE series intelligent energy-saving equipment is interlocked with original control system, energy-saving or routine running is alternative and the original routine running can run as usual while GE series intelligent energy-saving equipment is in examination and re-pair or failure.

### ■ 冷冻水末端压力问题

冷冻水泵降低流量降低转速运行,人们担心会不会出现供水末端压力不足而导致缺水现象,实际上,由于转速降低虽然使水泵供水压力降低,然后管道特性的压力损失也会随流量减少而减少,即需要的压力也会减少,供水压力与转速的二次方成比例降低需要压力(管道损失)则与流量的二次方成比例减少,二者可以相互补偿。此外,由于冷冻水泵系统是一个闭环的水系统,当冷水静止时,水泵两端的压力是一样的,水泵只是对冷冻水的流动提供动力,即水泵转速下降对冷冻水系统的压力几乎是没有影响,这与普通的供水系统有所区别。此外为保障主机对流量的要求,在设备调试阶段将根据用户的设备状况对冷冻水泵系统的转速设定“下限”,保证推动空调主机的水流开关,使整个空调系统能正常运行。

### ■ 工程举例 Gong Chengjuli

江西三清大酒店

冷冻水泵: 45kw-壹台

电价: 0.96元/度

安装前冷冻水泵用电量: 43度/小时

节电率: 83%每小时省35.7度

安装后冷冻水泵供冷时用电量: 21度/小时

节电率: 51.2%每小时省22度

年供热省电费:

$3.5\text{月}/\text{年} \times 30\text{天}/\text{月} \times 20\text{小时}/\text{天} \times 35.7\text{度}/\text{小时} \times 0.96\text{元}/\text{度} = 71971\text{元}$

年供热省电费

$5.5\text{月}/\text{年} \times 30\text{天}/\text{月} \times 20\text{小时}/\text{天} \times 22\text{度}/\text{小时} \times 0.96\text{元}/\text{度} = 69696\text{元}$

年节省电费  $71971 + 69696\text{元} = 141667$

### GE 智能节电王使用行业

使用行业	节能项目	节能率
酒店、商场	中央空调水泵系统	≥40%
自来水厂	中央空调水泵系统	≥40%
水泥厂	恒压供水系统	≥30%
油田	立窑风机	≥30%
发电厂	注水泵、输油泵、加压泵	≥30%
石化厂	鼓风机、引风机、给水泵	≥30%
造纸厂	风机、水泵	≥30%
饲料厂	冲浆机、上浆机	≥30%
卷烟厂	冷却风机	≥30%
食品厂	空调水泵、鼓风机	≥30%
煤矿	水泵、风机	≥30%
炼钢厂	通风机、给水泵、排水泵	≥30%
玻璃厂	空压机、排风机	≥30%

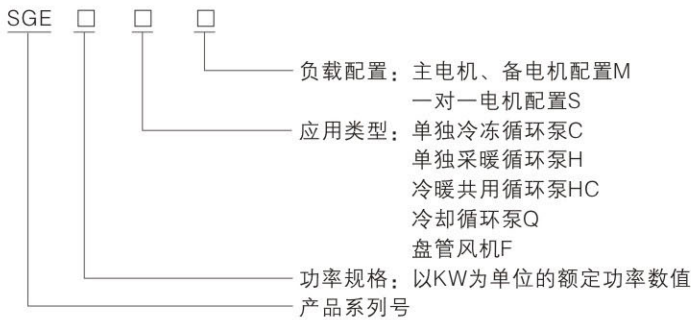
### ■ Lengdongshui moduan yali wenti

People are concerned about whether the water supply end will lack water due to under pressure when the refreezing pump runs at reduced flow and speed. In fact, although the lowering of speed will make water supply pressure of pump drop, the pressure loss of pipe-line characteristic will reduce following the reducing of flow, namely, the required pressure will reduce too; water supply pressure will reduce in proportion of square speed, the required pressure (pipe loss) will do so in proportion of square flow rate, the both may be compensated mutually. In addition, refreezing water pump system is a closed-loop water system, both ends of water pump end are at same pressure when refrigerated water is static, water pump just offers power to the flow of refrigerated water. i.e. the reducing of pump speed has no influence on the pressure of refrigerated water system, which is different from conventional water supply system. Further more, to meet the flow requirement of host engine, we will set the speed of refreezing water pump system to "lower limit" according to user's equipment state during equipment debugging, ensuring the pushing of water flow switch of air conditioner main engine and normal operation of the whole air conditioner system.



公司客户之一

### ■ 产品选型指南 Model Description



### ■ 产品型谱 Product Spectrum

序号	产品型号	外形尺寸(高×宽×厚)	电缆(mm <sup>2</sup> )	接地线(mm <sup>2</sup> )	信号线(mm <sup>2</sup> )
1	CE-7.5	600×500×350	2.5	2.5	PVV或 PVV29 3×0.8
2	CE-11	1400×650×430	4	2.5	
3	CE-15		6	4	
4	CE-18.5		6	6	
5	CE-22		10	6	
6	CE-30		1800×650×550	25	
7	CE-37	25		16	
8	CE-45	25		16	
9	CE-55	25		16	
10	CE-75	50		16	
11	CE-90	2000×800×700	70	16	
12	CE-110		70	25	
13	CE-132		120	25	
14	CE-160		150	25	
15	CE-220		240	50	
16	CE-280		240	50	

### ■ 主要技术参数 Technical Parameter

序号No.	项目Item		单位Unit	技术参数Technical Specification
1	电源 Power	电压 Voltage	V	342-456
		频率 Frequency	Hz	47-53
2	相(线) Phase(Line)			3相5线 three phase 3L1N1G
3	输出功率范围 Output Power Range		kW	7.5-280
4	温度测量范围 Temperature Test Range		°C	0-90
5	压力测量范围 Pressure Test Range		MPa	0-1.6
6	温度控制范围 Temperature Control Range		°C	2-15
7	节能效果(每台) Energy-saving Efficiency		%	≥40
	环境条件 Environment	温度 Temperature	°C	0-40
		相对湿度 Humidity	%	≤≤90无结露 No dew
		其他 Other		无尘埃, 无腐蚀性气体, 无强烈热动 No dust, no causit. no intensive vibration

## D/SGE 系列路灯照明专用节电器 D/SGE Street Lights Lighting Dedicated Saver



### ■ 用途

本系列专用产品采用通用的国内外先进技术。以微电脑为核心的控制装置，可设定定时打开和定时关机，优化袋、制，定压软启动，分时调压，稳定输出，可按季节或环境重新设定时限和电压，可选择节能运行或市电直通。具有过载，短路和过压保护措施并配置可编程多功能数显仪表。能完成电量监测，电能计量，数据显示，通信传输。能延长灯具的使用寿命，减少维护费用，降低维修人员的工作强度，使系统运转率的安全可靠性大大提高，最终实现了安全节能的目的。

### ■ 主要技能参数

- 1.电源电压：单相220V/三相380V $\pm 10\% \sim 15\%$ (订货选定)本机为三相340-430V/200-248V
- 2.电源频率：50~60Hz
- 3.输出电压：190~220V或180~220V或170~220(订货选定)本机为190V~225V(三相367~434V)按设定自动切换
- 4.稳压精度： $\pm 1\% \sim 5\%$ 可调
- 5.效率：98%

### ■ 规格 Specification

型号 Model	额定容量 Rated capacity	输出电流 Output current	输入电压 Input Voltage	输出电压 Output Voltage	相数 Phase NO.	耐压 Withstand voltage	绝缘电阻 Insulation resistance	效率 Efficiency	波形失真 Wave distortion	工作效率 Frequency	稳压精度 Stabile-Voltage
SGE-10	10	16	380V $\pm 0.15\%$ Line-Vol	线电压 380V 可设定  Line-Vol 310-380V can set	三相 three phase	2000V 一分钟无 击穿	$\geq 2M\Omega$	$\geq 98\%$	无波形失真  non-lack fidelity in wave distortion	50-60Hz	$\pm 1-5\%$
SGE-20	20	31									
SGE-30	30	46									
SGE-50	50	76									
SGE-75	75	114									
SGE-100	100	152									
SGE-150	150	228									
SGE-180	180	278									
SGE-225	225	342									
SGE-320	320	488									
SGE-400	400	608									
SGE-500	500	760									
SGE-600	600	928									
SGE-800	800	1238									
SGE-1000	1000	1550									
DGE-3	3	14	176~264V phase-vol	相电压 180V~220V 可设定 phase-vol 180V~220V can set	单相 single phase	1500V 一分钟无击 穿  1 min non- pvneture					
DGE-5	5	23									
DGE-10	10	46									
DGE-20	20	91									
DGE-30	30	137									
DGE-50	50	228									
DGE-100	100	455									

### ■ 照明系统最优工作方式

经过对现有市区照明系统常用光源气体放电灯的实验统计结果，得出这样的规律，当灯具电压过压10%时。灯具寿命降低一倍以上，电压为90%时。灯具寿命提高一倍左右，此时与过压10%相比寿命可延长3倍。而且照度值与额定状态相比仅衰减6%~8%，人眼很难察到。所以灯具电压为90%额定值时，不影响照明质量。右图是常用气体放电灯的照明寿命曲线，灯其电压为额定值90%时为气体放电灯最优照明电压。

## RP系列程控变频电源 RP Series Of Program-controlled Power Inverter

模拟全国供电网络  
测试各种电器设备  
Simulate power-supply  
network of different countries  
Test various electrical  
equipment



型号 Model		9803	9805	9810	9820	9830	9840	9850	9860	98100	98150	98200	98300	98450	98600	98750	98900	981000	98S1100	98S1250			
输出容量 Output capacity		300VA	500VA	1kVA	2kVA 1.5kVA	3kVA	4kVA 4.5kVA	5kVA	6kVA	10kVA	15kVA	20kVA	30kVA	45kVA	60kVA	75kVA	90kVA	100kVA	110kVA	125kVA			
制作方式 Modulation mode		脉宽调制 Pulse-width modulation		SPWN正弦脉宽调制方式 SPWN Sine pulse-width modulation mode																			
线性放大 Linear amplification																							
输入 Input	电压 Voltage	220V ± 10%			220V/380V ± 10%								380V ± 10%										
	相数 Phase No.	单相 Single Phase			单相/三相 Single Phase/Three Phase								三相 Three Phase										
	频率 Frequency	50Hz/60Hz ± 5%																					
输出 Output	电压 Voltage	0V~150V, 151V~300V			0V~150V, 151V~300V(相电压)/0V~260V, 261~520V(线电压)														0V~520V(线电压) 0V~300V(相电压)				
	相数 Phase No.	单相 Single Phase			单相/三相 Single Phase/Three Phase														三相 Three Phase				
	频率 Frequency	25Hz			25Hz																400Hz		
	电流(A) Current(A)	2.7/1.4	4.6/2.3	9.1/4.5	18.2/9.1	27.4/13.7	36.4/22.8	45.6/22.8	54.6/27.3	90.9/45.5	136/68.2	182/90.9	272/136	408/204	545/273	680/340	818/409	904/452	333/167	378/189			
频率稳定度 Frequency stability	≤0.05%			≤0.02%																≤0.05%			
负载稳定率 Load stability frequency	≤1%			≤0.5%																≤1%			
波形失真度 Wave distortion	≤2%			≤0.5%																≤2%			
三相不平衡 Wave	相位120° ± 2° 相电压差<3%额定值																						
频率 Frequency	≥85%			≥50%																≥85%			
仪表显示 Meter display	电压、电流、频率、功率 Voltage, current, frequency, power			电压、电流、频率、功率/电压、电流、频率 Voltage, current, frequency, power/Voltage, current, frequency														电压、电流、频率 Voltage, current, frequency					
保护功能 Protection function	具备过流、过载、过热、短路保护及报警 with protection against overloading, overheating and short circuit and alarm.																						
尺寸(w×d×h) Dimensions(w×d×h)	440×460×180		280×500×450		300×620×620				560×650×950				800×1200×1100				900×1500×1800				800×2000×1640		
工作环境 Working environment	温度0~40℃, 相对湿度0~90% Temperature 0~40℃. Relative humidity 0~90%																						

## GX 系列UPS GX Series UPS



### ■ 产品特性和性能

MX系列UPS针对中国地区电力资源特性，专门解决PC机用户电源困扰而精心设计的新一代高科技结晶，其超宽的市电输入范围即使运行在电压不稳定的电力环境中，UPS亦可正常工作，减少了电池放电次数，大幅度提升了电池使用寿命，其超强的过载能力和短路保护功能有效的提高了UPS的使用率，保障了UPS的正常运行和负载的安全。

### ■ Chanping Texing Hexing Neng

Pointing to the electrical source characters in China,the MX series UPS is a new generation high-tech crystallization elaborately designed to resolve the power obsession of PC users.With its super-wide input range of main supply,the UPS can also run normally even if the voltage of power is instable.It can reduce the discharge times of battery and greatly increase its using life.Its super-strong overload capacity and short circuit protection function have effectively improved UPS rate of utilization and guaranteed its normal running and loading security.

### ■ MX系列 UPS 500VA~3000VA

型号Model		MX50	MX100
额定功率 Rated power		600VA,500VA,350VA	1200VA,1000VA,800VA
交流输入 AC input	电压范围Voltage range	170~265V	
	频率范围Frequency range	50±3Hz	
交流输出 AC output	电压Voltage	220V±10%	
	频率Frequency	50±0.5Hz(市电输入时与市电同步) 50□0.5Hz(in-phase with the one when supplied by mains supply)	
	波形Wave form	方波 Square wave	
电池 battery	直流电压DC voltage	12VDC	
	密封免维护铅酸蓄电池 lead-acid sealing accumulator,maintenance free	12V/7AH×1	12V/7AH×2
	备用时间Back-up time		
	充电时间Charge time	8小时充满至90% Fully charge to 90% for 8h	
切换时间 Transfer time	市电停电或复电 Failure or recovery of mains supply	< 10mS	
噪音Audio noise	1公尺距离1 meter distance	< 45dB	
指示灯 Indicator light	LED显示 LED display	市电(绿灯)、逆变(红灯)、电池提示(黄灯) Main supply (green light),Inversion (red light),Battery inductor (yellow light)	
报警声音 Alarm sound	UPS正常 UPS normal	市电中断时每4秒警告声；当电池欠压时每1秒警告声 Alarm every 4 seconds when mains supply breaks;alarm every second when the battery is in undervoltage.	
	UPS异常 UPS abnormal	长鸣声 buzz	
输出插座Output socket		国标、美标各一个 Each one to national standard and American standard	国标2个 2 to national standard
监控介面 Control interface	RS232接口RS232 interface	市电中断、电池欠压、保存文件(限于带RS-232接口的机器) save the documents when mains supply breaks or battery is undervoltage.(restricted to the machine with RS-232 interface)	
使用环境 Using environment	温度Temperature	0℃~40℃	
	相对湿度 Relative humidity	30%~90%无结露 30%~90% no condensation	
	海拔高度Height above sea level	<1000米(每增加100米功率降额1%，最大400米) <1000m(the power will drop 1% per increase of 100m,max:4000m)	
重量(Kg) Weight(kg)		5.8	11.5
外形尺寸(mm) Overall dimensions	长(L)×宽(W)×高(H)	315×100×140	420×115×170

## GI 系列UPS GI SeriesUPS

### ■ 产品特性和性能

MI系列UPS乃针对市电网波动频繁的地区, 当市电输入在机器超宽的市电工作范围内时, 输出自动调控型及高效率的纯正弦波电源, 减少了电池的频繁放电, 增加了蓄电池的使用寿命, 超强的过载能力和电力隔离输出, 对邮电、铁道、电力系统、通讯系统、精密仪器设备, 计算机网络系统提供更高级别的电源保护。具有直流启动功能, 在无市电电源情况下, 可以直接利用电池进行紧急开机。其亲和性的液晶显示加上先进的通讯功能和完善的电源管理软件极大地增强了UPS的控制和监视功能。

### ■ Chanping Texing Hexing Neng

MI Series:For the areas where electric network of mains supply fluctuates frequently,MI series of UPS can transmit auto-regulated and high-efficiency pure sine wave to reduce frequent charging of battery and prolong accumulator using life when the input of mains supply is within its super-wide working ranges of machine.With super load capacity and electric buffered output,UPS provides high grade power protection for posts and telecommunications, railway,electric system,communication system precise posts instrument and com-puter network system.UPS has DC starting function:it can directly carry out emergency shutdown with battery under the conditions of no commercial power.The affinity of liquid-crystal display, advanced communication function and improved power management soft-ware have greatly strengthende UPS is functions of control and monitor.



### ■ MI系列 UPS 500VA~3000VA

型号 Model		MI1000VA	MI2000VA	MI3000VA
额定功率 Rated power		800W	1600W	2400W
交流输入 AC input	相数 Phase NO.	单相(L+N+G) Single Phase(L+N+G)		
	电压 Voltage	220V±25%		
	频率 Frequency	50Hz±5%		
交流输入 AC input	电压 Voltage	220V±10%		
	频率 Frequency	50Hz±0.5%		
	波形 Wave form	正弦波 Sine wave		
	波形失真 Wave distortion	THD<3%(线性负载) THD<3%(Linear load)		
	功率因数 Power factor	0.8滞后 0.8lag		
	电流峰值系数 Current peak coefficient	3:1, 适合于整流性负载 3:1, suitable for rectifying load		
电池 Battery	直流电压 DC voltage	48V/110V/220V		
	充电时间 Charge time	8~12小时充电至90% up to 90%after charge for 8-12 hours		
动态电压瞬间变范围 Transient ranee of dynamic voltaae		0~100%负载变化, <10% 0-100% load change, <10%		
切换时间 Transfer time		市电高压、低压、断电时切换到电池供电, 时间<10mS In the case of high voltage,low voltage or failure of mains supply,it will swith to battery power supply,time <10mS.		
保护 Protection		过载保护、短路保护、电池电压低保护、突波电压保护 Protection against overloadd,short circuit,low battery voltage or surge voltage		
噪音 Audio noise		<55dB		
LED指示灯 LED indicator light		市电、逆变、过载、电池等状态 The states of mains supply,inversion,overload and battery,etc		
显示 Display	LCD液晶显示 LCD liquid crystal display	UPS厂商、型号、工作状态、输入/输出电压、输入/输出频率、电池电压、负载百分比 The manufacturers, models, working states as well as Input/output voltage of UPS Input/output frequency, battery voltage and load percentage		
	市电故障 Fault of mains supply	每4秒断续声 Pulsed sound every 4 seconds		
警报 Warn	电池电压低 Low voltage of battery	每秒断续声 Pulsed sound per second		
	过载 Overload	连续报警声 Successive alarm		
电脑监控界面 Computer control interface	RS232接口 RS232 interface	实时监控UPS的工作状态, 市电中断警告, 电池电压低警告、对文件的保存、关机 Real time monitoring and controlling the working state of UPS, warning of mains supply failure, warning of low voltage of battery, saving documents as well as closing the machine.	1.遥测UPS的输入、输出电压和频率、负载大小、电池容量, 并适时显示在PC机上 2.实时遥测UPS的工作状态 3.通过PC预定UPS的开关机功能 4.电池耗尽, UPS关机前能自动保存文件, 自动关PC, 再自身关闭 1.Telemeter the input/output voltage and frequency of UPS,load,battery capacity which will be shown appropriately on PC machine 2.Real time telemetering the working state of UPS 3.Preset the UPS function of starting & closing machine through PC 4.Before battery is used up,it canautomatically save documents,close PCand then close itself.	
	温度 Temperature	0°C~40°C		
使用环境 Using environment	相对湿度 Relative humidily	30%~90%无结露 30%~90% no condensation		
	海拔高度 Height above sea level	<1000米(每增加100米功率降额1%, 最大4000米) <1000m(the power will drop 1% per increase of 100 m,max.:4000m)		
	重量(Kg) Weight(kg)	19.1	30.3	33.5
外形尺寸 (mm) Overall dimensions	长 (L)	515	560	560
	宽 (w)	180	210	210
	高 (H)	315	370	370

## MP系列UPS MP Series UPS



### ■ 产品特性和性能

MP系列在线式UPS具有体积小、重量轻，高频在线式纯正弦波输出。电池直流直接开机。输入功率因数有源校正，使电网环境污染降至最低。能够为负载提供更佳的电源环境。无论从稳压输出范围、频率范围、输入杂讯的滤除，乃至市电模式与电池模式零转换时间等方面考虑。其在线式设计均是最佳的UPS结构。除了具备传统在线式功能外，更为可靠性要求极高的用户提供高品质的电力保障。容量6KVA以上的机种，还可以使用双机热备份，使故障率大为降低，有效提高电源的安全性与可靠性。其应用范围包含：计算机及网络系统、军用通讯系统、卫星通信系统、高级医疗设备、精密仪器设备、监控保安系统、消防照明系统、金融证券网络、电台发射及接收系统、信息传输系统等需要不间断电源之领域。

### ■ Changing Texting Hexing Neng

MP Series Online UPS of MP series is of little volume, lightweight and output of high-frequency online purely sine wave and the machine can start by using DC battery. Source correction of input power factors minimizes environmental pollution of electric network and provides optimized power environment for load. Whether considering from the output ranges of voltage stabilization, frequency ranges, filtering of input noise, zero switching time of power and battery mode and other aspects, its online design is the best UPS structure. Besides conventional online function, it can even provide high-quality electric safeguard for users with high requirement of reliability. The machine with above 6KVA capacity can also use duplex heating backup to make failure rate to be reduced greatly and effectively improve power security and reliability. It is mainly used for the fields which require UPS, including computers, network, military communication system, satellite communication system, high-grade medical equipment, precision instruments and equipment, monitor protection system, fire fighting illumination system, financial securities network, broadcasting station sending and receiving system as well as information transmission system.

### ■ 先锋系列 UPS MPC1KVA~MP3C20KVA

型号Model		MPC1K	MPC1KS	MPC2K	MPC2KS	MPC3K	MPC3KS
额定功率 Rated power		700W		1400W		2100W	
交流输入 AC input	电压范围 Voltage range	140V~285V					
	频率范围 Frequency range	50Hz□5%					
交流输出 AC output	电压 Voltage	220V□3%					
	频率 Frequency	50Hz±0.5%，市电工作时与市电频率同步 50Hz±0.5%，in-phase with the one when supplied by mains supply					
	波形 Wave form	正弦波;非线性负载时THD<3%;线性负载时THD<1% Sine wave, nonlinear load: THD<3%; linear load: THD<1%					
	过载能力 Overload capacity	110%~130%负载时10秒转旁路;130%以上200毫秒转旁路 switch to BYPASS in 10s if bearing 110%~130% load; switch to BYPASS in 200ms if bearing 130% load or above					
备用时间(满载/半载min) Back-up time(full load/half load min)		6/14		9.5/21		7.5/17.5	
外接直流标称电压 External DC nominal voltage		36V		96V		96V	
切换时间 Transfer time	市电=电池 mains supply=battery	零中断 Zero break-off					
	市电=旁路 mains supply=bypass	≤4mS (标准时间2.5mS) ≤4mS (standard time is 2.5mS)					
外接直流标称电压 Communicating interface		RS232+Intelligent Slot					
使用环境 Using environment	温度 Temperature	0°C~40°C					
	相对湿度 Relative humidity	30%~90%无结露 30%~90% no condensation					
	海拔高度 Height above sea level	<1000(每增加100米功率降额1%,最大4000米) <1000m(the power will drop 1% per increase of 100m, max:4000m)					
重量(Kg) Weight(kg)	15	7	34	18	35	19	
外形尺寸 (mm) Overall dimensions	长(L)	405		465			
	宽(W)	145		195			
	高(H)	220		340			

## MT/MTT 系列UPS MT/MTT Series UPS

### ■ 产品特性和性能

MT/MTT系列UPS为真正在线式不间断电源，纯正弦波输出。本系列机器采用最新型功率模块，使UPS更加高效、高可靠性、SPWM全桥式逆变器，隔离变压器输出不间断电源具有超强的负载冲击能力和过载能力。适用于：计算机及网络系统、军用通讯系统、卫星通信系统、高级医疗设备、精密仪器设备、监控保安系统、消防照明系统、金融证券网络、电台发射及接收系统、信息传输系统等领域。通过其智能化遥控、遥测接口还可以提供对UPS远程监控智能化管理。

### ■ Channing Texing Hexing Neng

MT/MTT series UPS is the real online UPS with purely sine wave output. This series of machines has adopted updated type power module to make UPS more efficient and reliable. SPWM full-bridge inverter and isolating transformer output makes UPS own superstrong load shock capacity as well as over loading capacity. This series is applicable for many fields such as computers, network, military communication system, satellite communication system, high-grade medical equipment, precision instruments and equipment, monitor protection system, high-grade medical equipment, precision instruments and equipment, monitor protection system, fire fighting illumination system, financial security network, broadcasting station sending and receiving system as well as information system. Through intelligence telecontrol, telemetry interface can also supply telemonitoring intelligence management for UPS.

### ■ 先锋系列 UPS 1KVA~40KVA



型号 Model	单进单出 Single-in & single-out		MT 1KVA	MT 2KVA	MT 3KVA	MT 5KVA	MT 6KVA	MT 10KVA	MT 15KVA	MT 20KVA	MT 30KVA	MT 40KVA
	三进单出 Three-in & single-out					MTT 5KVA	MTT 6KVA	MTT 10KVA	MTT 15KVA	MTT 20KVA	MTT 30KVA	MTT 40KVA
额定容量Rated capacity			800W	1600W	2400W	4000W	4800W	8000W	12000W	16000W	24000W	32000W
交流输入 AC input	相数 Phase No.	单进单出Single-in & single-out	单相(L+N+G) Single Phase(L+N+G)									
		三进单出Three-in & single-out	三相(3W+N+G) Three Phase(3W+N+G)									
	电压 Voltage	单进单出Single-in & single-out	220VAC□20%									
		三进三出Three-in & single-out	380VAC□20%									
	频率范围Frequency range	50/60□5%Hz										
交流输出 AC output	电压Voltage	220V										
	电压精度Voltage precision	± 2%										
	频率Frequency	50Hz/60Hz, 频率精度+0.5%(市电供电时与市电同步)50Hz/60Hz frequency precision +0.5%(in-phase with the one when supplied by mains supply)										
	波形Wave form	正弦波, THD小于3%, (线性负载) Sine wave, THD□3%(linear load)										
	过载能力 Overload capacity	120%额定电流, 5秒后自动切换至旁路(BYPASS) at 120% rated current, automatically switch to BYPASS after 5s. 150%额定电流, 10个周波后自动切换至旁路(BYPASS) at 150% rated current, automatically switch to BYPASS after 10 cycles.										
	功率因数Power factor	0.8滞后 0.8lag										
	电流峰值系数 Current peak coefficient	3:1, 适合于整流性负载 3:1 suitable for recifying loa										
动态电压瞬变范围 Transient range of dynamic voltage	0-100%负载变化, ± % 0-100% load change +4%											
切换时间Transfer time	0											
静态开关时间(ms) Time of static switching(mS)	0											
电池 Battery	类型Type	120%额定电流, 5秒后自动切换至旁路(BYPASS)Lead-acid sealing accumulator, maintenance free(excluding battery)										
	备用时间back-up time	150%额定电流, 10个周波后自动切换至旁路(BYPASS)The standard is 5 min, the long time lag is up to 8h (full load PF 0.8)										
	充电时间Charge time	7-16小时内充电90% up to 90% after charge for 7-16 hours					10-24小时内充电90% up to 90% after charge for 10-24 hours					
	数量Quantity(12V, piece)	4	8	10	16				30		32	
	直流电压DC voltage	48V	96V	120V	192V	192V	192V	192V	192V	192V	192V	192V
效率Efficiency	> 86%											
噪声(一米距离处) Noise(1 meter distance)	< 60dB											
保护 Protection	过载时转换至旁路电源, 过载/短路保护, 突浪电压保护(220VUPS-470V), 杂讯抑制能力达FCCA级 Switch to by-pass power when overload; protect against overload/short circuit and surge voltage(220V UPS 470V) Noise rejection capacity reaches FCCA class											

## MTS系列数字化 UPS MTS Series Intellience Digital UPS

### 产品特性和性能

MTS系类智能化数字有线式UPS为我公司最新一代大功率UPS产品。采用模块化结构及线路总线连接方式，全名数字化智能未处理器控制和先进的IGBT模块全桥通便器。保证了整机的先进性。自动平衡调节功能，能适应不同负载的需要。广泛应用于计算机及网络系统，军用通讯系统、卫星通信系统、高级医疗设备，精密仪器设备，监控保安系统、消防照明系统，金融证券网络，电台发射机接收系统，信息传输系统等对电源要求更高的领域。

### Chanping Texing Hexing Neng

MTS series intelligence digital online UPS, the new generation largepower UPS product made by our company, has adopted modular structure and the connecting type of circuit bus wire. The overall digital intelligence microprocessor control and advanced IGBT modular full-bridge inverter have guaranteed the progress of the whole machine. Its function of automatic balance adjustment enables it to accommodate to the requirements of different loads. This series is widely used in the field with high-requirements to power supply such as computers, network, military communication system, satellite communication system, high-grade medical equipment, precision instruments and equipment, monitor protection system, fire fighting illumination system, financial securities network, broadcasting station sending and receiving system as well as information transmission system.

### MTS系列数字化UPS 10KVA~120KVA



型号 Model	MTS 10KVA	MTS 15KVA	MTS 20KVA	MTS 30KVA	MTS 40KVA	MTS 60KVA	MTS 80KVA	MTS 100KVA	MTS 120KVA	
额定功率 Rated power	8KW	12KW	16KW	24KW	32KW	48KW	64KW	80KW	96KW	
交流输入 AC input	相数 Phase No. 三相(3W+N+G) Three Phase(3W+N+G)									
	电压 Voltage 380VAC ± 20%									
	频率 Frequency 50Hz ± 10%									
	最大输入电流 Max. Input current	25	33	40	56	71	102	133	164	195
	功率因素 Power factor	0.92(带输入滤波器) 0.92(with input filter)								
交流输出 AC output	相数 Phase No. 三相(3W+N+G) Three Phase(3W+N+G)									
	电压 Voltage 380V ± 1%(稳态), 380V ± 5%(暂态) 380V ± 1%(stead state); 380V ± 5%(transient state)									
	频率 Frequency 50Hz/60Hz, 频率精度 ± 0.5%(市电供电时与市电同步) 50Hz/60Hz frequency precision ± 0.5%(in-phase with the one when supplied by mains supply)									
	波形 Wave form 正弦波, 线性负载时THD小于3%, 非线性负载时THD小于5% Sine wave, line load; THD<3%; nonlinear load; THD<5%;									
	过载能力 Overload capacity 125%额定电流, 10分钟后自动切换至旁路(BYPASS)150%额定电流, 1分钟后自动切换至旁路(BYPASS) at 125% rated current, automatically switch to BYPASS after 10min 150% rated current, automatically switch to BYPASS after 1min									
	功率因数 Rated power 0.8滞后									
	动态电压瞬变范围 Transient range of dynamic voltage 0~100%负载变化, ±5% 0~100% load change ± 5%									
	暂态恢复时间 Recovery time of transient state <20ms									
	三相电压不平衡 Unbalance of three-phase voltage < ± 3%(不平衡负载), < ± (平衡负载) < ± 3%(unbalanced load); < ± 1%(balanced load)									
	切换时间 Transfer time 0									
静态开关时间 Time of static switching(ms) 0 <4ms										
电池 Battery	电压 Voltage 384V(32只, 12V铅酸密封免维护蓄电池, 机器不包括电池) 384V(32pcs, 12V lead -caid sealing accumulator, maintenance free excluding battery)									
	充电浮充电压 Charge floating current 432V									
	充电电流 Charging current 15A									
	放电截止电压 Discharging cut-off voltage 336A									
	最大放电电流 Max. discharging current	29	38	51	76	101	152	203	253	304
效率 Efficiency	>91%		>92%			>93%		>94%		
噪音(一米距离处) Noise(1meter distance)	48~60dB			53~65dB			55~68dB			
冷却方式 Cooling way	内部强制风冷 Inner air-blast cooling									
保护 Protection	过载时转换至旁路电源, 过载/短路保护, 突波电压保护(220VUPS-470V), 杂讯抑制能力达FCCA级 Switch to by-pass power when overload; protect against overload/short circuit and suurger voltage(220V UPS 470V)Noise rejection capacity reaches FCCA class									

## GZD(W)微机控制直流电源屏 GZD(W)Microcomputer Control DC Power Supply Screen



### ■ 产品特性和性能

GZD(W)直流屏是采用微机控制的新一代直流电源装置。主要适用于电力系统电厂、水电站、变电站和工矿企业、高层建筑、通讯、铁路等场所的直流操作，继电保护，控制信号等直流装置和事故照明等方面的不间断直流供电。

产品特点为微机自动控制和检测、数字显示、合理进行电池均充浮充和自动切换、交流失电后恢复供电时能自动恢复正常运行。

### ■ 主要技术参数：

#### 一、交流输入

电压：AC380V±20%，三相四线制；频率：50Hz

#### 二、直流输出

- 1.电压：DZ24、48、110、220V；
- 1.电流：控制母线：80A-200A 动力母线：120A-5000A；
- 3.稳压精度：<0.5%；
- 4.稳流精度：<1%；
- 5.纹波系数：<1%；

#### 三、电池容量

- 1.隔镍电池：10AH~500AH；
- 2.免维护电池：12AH~1000AH。

四、绝缘强度：AC2KV/min.

五、防护等级：IP30。

### ■ Chancing Texing Hexing Neng

As a new DC power supply apparatus adopting microcom-puter control ,GZD ( W ) DC Screen is mainly used in such fields aselectric power system powe rplant, hydropower station,trans- fo rming station, industrial and mining enterprise,high rise building, communication, railway and so on. It servesfor unin-te rrupted DC power supply of acciden lighting and DC devices such as DC operation,relay protection, control signal,etc.

The product featuras automatic control and detection, digi-tal display, reasonable and even floating charge of batte ry,au-tomatic switchover and reset to normal operation if power sup-ply recovered whenAC power off.

### ■ Main Technical Parameters:

- 1.AC input;  
Voltage: AC380V+20%,3-phase4-wire:frequency:50Hz±5Hz
- II. DC output:
  - 1.Voltage:DZ24,48,110 and 220V;
  - 2.Current:control bus:80A-500A Dynamic bus:120A-5000A
  - 3.Voltage regulation precision:<0.5%
  - 4.Constant current precision:<1%
  - 5.Coefficient of rippling:<1%
- III Battery capacity
  - 1.Cadmium and nickel battery,10AH~500AH.
  - 2.Maintenance free battery:12AH~1000AH
- IV. Insulating strength:AC2KV/min
- V. Level of protection:IP30

## 智能型风力发电机组 Intelligent Energy wind turbine



型号 Model	FD2.1-200-8L	FD2.1-200-8H	FD2.5-300-8L	FD2.5-300-8H	AEOLUS 300	FD2.7-500-10L	FD2.7-500-10L
额定功率 Rated power(W)	200	200	300	300	300	500	500
额定电压 Rated Voltage	24VDC	25VDC	24VDC	24VDC	12V/24VDC	24VDC	24VDC
风轮直径 Rotor Diameter(m)	2.2	1.8	2.5	2.0	1.5	2.5	2.1
启动风速 Start-up Wind Speed(m/s)	3	3	2.5	2.5	2.5	2	2
额定风速 Rated Wind Speed(m/s)	6	12	7	12	12	8	12
安全风速 Security Wind Speed(m/s)	16	35	16	35	35	16	35
额定转速 Rated Rotate speed(m/s)	450	450	400	400	450	400	400
叶片材料 Blades Material	玻璃钢 Fiber Glass	玻璃钢 Fiber Glass	玻璃钢 Fiber Glass	玻璃钢 Fiber Glass	碳纤维 Carbon Fiber	玻璃钢 Fiber Glass	玻璃钢 Fiber Glass
叶片数 Number of Blades	3	3	3	3	3	3	3
塔架高度 Tower Height(m)	4.5	4.5	6	6	6	6	6
塔架直径 Tower Diameter(mm)	60	60	76	76	48	89	89
配套逆变器 Inverter Type	修正波 Modified Wave	修正波 Modified Wave	修正波 Modified Wave	修正波 Modified Wave	修正波 Modified Wave	修正波 Modified Wave	修正波 Modified Wave
建议配套蓄电池容量 Suggested Batteries Capacity	12V100AH×2	12V 100AH×2	12V 15 0AH×2	12V 15 0AH×2	12V 15 0AH×2	12V 20 0AH×2	12V 20 0AH×2



型号 Model	FD3.0-1000-10L	FD3.0-1000-10H	FD3.6-2000-10H	FD3.6-2000-10H	FD3.6-2000-10B	FD5.0-3000-16L
额定功率 Rated power(W)	1000	1000	2000	2000	2000	3000
额定电压 Rated Voltage	48VDC	48VDC	120VDC	120VDC	180-260VDC	240VDC
风轮直径 Rotor Diameter(m)	2.7	2.3	3.2	2.5	2.5	4.5
启动风速 Start-up Wind Speed(m/s)	2	2	2	2	2	2
额定风速 Rated Wind Speed(m/s)	9	12	9	12	12	10
安全风速 Security Wind Speed(m/s)	16	35	16	35	35	35
额定转速 Rated Rotate speed(m/s)	400	400	400	400	400	220
叶片材料 Blades Material	玻璃钢 Fiber Glass	玻璃钢 Fiber Glass	玻璃钢 Fiber Glass	玻璃钢 Fiber Glass	碳纤维 Carbon Fiber	玻璃钢 Fiber Glass
叶片数 Number of Blades	3	3	3	3	3	3
塔架高度 Tower Height(m)	6	6	9	9	9	9
塔架直径 Tower Diameter(mm)	114	114	140	140	140	273
配套逆变器 Inverter Type	修正波 Modified Wave	修正波 Modified Wave	正弦波 Sine Wave	正弦波 Sine Wave	并网 Grid Tie	正弦波 Sine Wave
建议配套蓄电池容量 Suggested Batteries Capacity	12V200AH×4	12V200AH×4	12V200AH×10	12V200AH×10	—	12V200AH×20

型号 Model	FD5.0-3000-16H	FD6.4-5000-16L	FD6.4-5000-16L	FD8.0-10K-20L	FD8.0-10K-20H	FD10.0-20K-40H
额定功率 Rated power(W)	3000	5000	5000	10000	10000	20000
额定电压 Rated Voltage	240VDC	240VDC	240VDC	240VDC	240VDC	360VDC
风轮直径 Rotor Diameter(m)	3.6	6.3	6.3	8.0	6.4	10.0
启动风速 Start-up Wind Speed(m/s)	2	2	2	2	2	2
额定风速 Rated Wind Speed(m/s)	12	10	10	10	12	12
安全风速 Security Wind Speed(m/s)	45	25	25	25	45	45
额定转速 Rated Rotate speed(m/s)	220	200	200	180	180	90
叶片材料 Blades Material	玻璃钢 Fiber Glass	玻璃钢 Fiber Glass	玻璃钢 Fiber Glass	玻璃钢 Fiber Glass	碳纤维 Carbon Fiber	玻璃钢 Fiber Glass
叶片数 Number of Blades	3	3	3	3	3	3
塔架高度 Tower Height(m)	9	12	12	12	9	18
塔架直径 Tower Diameter(mm)	273	273	273	325	140	377
配套逆变器 Inverter Type	正弦波 Sine Wave	正弦波 Sine Wave	正弦波 Sine Wave	正弦波 Sine Wave	并网 Grid Tie	正弦波 Sine Wave
建议配套蓄电池容量 Suggested Batteries Capacity	12V200AH×20	12V300AH×20	12V300AH×20	12V400AH×20	12V400AH×20	12V800AH×20

低压开关柜系列  
Series Of Low-Voltage Switchgear



MNS低压抽出式开关柜



GCK1-5低压抽出式开关柜



GCS低压抽出式开关柜



GGD型交流低压配电箱



KYN18A-12型户内交流铠装封闭移开式开关设备



KYN28-12(GZS1)铠装移开式金属封闭开关设备



KYN61-40.5型铠装移开式交流金属封闭开关设备



XL-21型低动力配电箱

## 风光互补路灯介绍 Wind Solar Energy Complementary Road Lights Description



本公司研发的风光互补路灯是国内首创的新一代新能源路灯系统，它能充分利用大自然中的风能和太阳能资源，形成资源互补。风光互补路灯系统之广大民众所知的纯太阳能路灯系统而言，其对资源的利用率、对系统的稳定性和可靠性而言，已经大超过了纯太阳能路灯。在同等的系统要求下，风光互补路灯系统造价亦远远低于太阳能路灯系统。

由于风力发电机和太阳能电池的充电特性不一样，风机的充电特性较硬，光伏电池的充电特性较软，而风光互补充电对激活离子运动，防止蓄电池极板硫化有很大的好处，可以大大延长蓄电池组的寿命。因此风光互补路灯较之目前最为广大民众所知的太阳能路灯系统而言，是新能源路灯系统中最可靠的一种设计方案，亦是最能充分自然资源的一种方式，在同等的系统要求下，风光互补系统的造价大大低于太阳能系统。同时稳定性和可靠性却大大高于太阳能系统。风光互补路灯广泛用于道路照明、停车场照明、广场照明等所有需要照明的场所。

Fs200 is served as measuring and recording wind speed and wind direction (ready for use) it has capacity of cycle record of 8000 history record. Targeted-design nixie tube, liquid crystal screen and keyboard contribute to the easy and convenient operation of FS200. It can also communicate with computer, that is, to record the data of wind speed and wind direction to computer which will be observed and analyzed by Fs200. Through the use of the system, users can gain the general picture of local wind resources anticipating the purchase of wind turbine installed locally.

of wind speed and wind direction to computer, which will be observed and analyzed by Fs200. Through the usage of the system, users can gain the general picture of local wind resources anticipating the purchase of wind turbine generator, which render them to learn whether wind turbine generator or which model can be appropriate to be installed locally. of wind speed and wind direction to computer, which will be observed and analyzed by Fs200. of the system, users can gain the general picture of local wind resources anticipating the purchase of wind turbine generator, which render them to learn whether wind turbine generator or which model can be appropriate to be installed locally.

## 我公司生产部分产品发至电厂名称

- |                 |                        |
|-----------------|------------------------|
| 1. 开封火电厂        | 49. 京海煤研石电厂            |
| 2. 登封向阳电厂       | 50. 内蒙古包头电厂            |
| 3. 火庸信阳华豫发电厂    | 51. 宁夏大坝电厂             |
| 4. 内蒙古华润金能热电厂   | 52. 宁夏中宁发电厂            |
| 5. 河南大唐洛阳首阳山发电厂 | 53. 戚墅堰电厂              |
| 6. 中阳钢厂         | 54. 山西阳光发电厂            |
| 7. 宝鸡电厂         | 55. 上海外商桥电厂            |
| 8. 大连华能电厂       | 56. 神头电厂               |
| 9. 广西锦盛电厂       | 57. 石川岛电厂              |
| 10. 贵州安顺电厂      | 58. 石嘴山电厂              |
| 12. 呼伦贝尔电厂      | 59. 顺德德胜电厂             |
| 13. 天津黄骅电厂      | 60. 宿迁电厂               |
| 14. 黄陵电厂        | 61. 望亭电厂               |
| 15. 嘉兴电厂        | 62. 印尼电厂               |
| 16. 纳雍电厂        | 63. 越南电厂               |
| 17. 盘南电厂        | 64. 云南滇东电厂             |
| 18. 平凉电厂        | 65. 香港电厂               |
| 19. 神木电厂        | 66. 印度WPCPL4×135MW发电工程 |
| 20. 石嘴山电厂       | 67. 四川维尼纶厂             |
| 21. 思林水电站       | 68. 大唐七台河电厂            |
| 22. 天津大港电厂      | 69. 南阳鸭河电厂             |
| 23. 吴江垃圾电厂      | 70. 合肥电厂               |
| 24. 五原县电厂       | 71. 华能电厂               |
| 25. 小彬长水电站      | 72. 神华包头煤矿公司           |
| 26. 孝义电厂        | 73. 乐清华能电厂             |
| 27. 新疆奎屯电厂      | 74. 佳木斯电厂              |
| 28. 永昌电厂        | 75. 齐齐哈尔电厂             |
| 29. 大唐七台河发电厂    | 76. 丹东电厂               |
| 30. 贵州习水电厂      | 77. 董菁水电站              |
| 31. 河北迁安电厂      | 78. 台州华能电厂             |
| 32. 山西临汾热电厂     | 79. 沈阳电厂               |
| 33. 青海桥头电厂      | 80. 广电新都               |
| 34. 六盘山电厂       | 81. 广电荔城               |
| 35. 青铜峡电厂       | 82. 东城输钮               |
| 36. 呼伦贝尔金新化工    | 83. 广电新塘2              |
| 37. 马鞍山电厂       | 84. 广电东晓路              |
| 38. 台山铜鼓湾电厂     | 85. 广电关头               |
| 39. 辽宁清河发电厂     | 86. 广电天河               |
| 40. 湖南涟源电厂      | 87. 广电农林               |
| 41. 唐山曹妃电厂      | 88. 广电北京路              |
| 42. 莱芜电厂        | 89. 广电较场西              |
| 43. 抚顺电厂        | 90. 广电流花路              |
| 44. 沧州华峰电厂      | 91. 广电江南路              |
| 45. 清泾热电厂       | 92. 广电客村               |
| 46. 大同二电厂       | 93. 广电河源               |
| 47. 江苏南通电厂      | 94. 惠州高区               |
| 48. 江西分宜电厂      | 95. 惠州低区               |



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地址：中国温州柳市天天红大厦(大兴东路)  
电话：0086-577-62754431 62754432  
传真：0577-62752183  
邮编：325604