

# Quatron



## **Quatron Electric Co., Ltd**

Add: No.233-3, Dongfu 3rd Road, Dongfeng Town,  
Zhongshan, Guangdong, China  
Tel: +86-760-2260 3393  
Fax: +86-760-2260 3136  
[Http://www.quatronpower.com](http://www.quatronpower.com)  
Email: [info@quatronpower.com](mailto:info@quatronpower.com)

# Quatron

*building the quality power*



▶ **PRODUCT  
CATALOGUE**

**AVR • UPS • INVERTER • SOLAR SYSTEM**

# Enterprise introduction

## About us

**Quatron** was established in 2008, the former name was known as Andefia Industries Ltd, which was acquired by present management team in the beginning of 2015 and renamed as Quatron Electric Co., Ltd. Since its establishment, we focus on the designing and manufacturing of power products for household and commercial applications, including:

- Automatic Voltage Regulators /Stabilizers (AVR/SVC)
- Uninterruptible Power Supplies (UPS)
- DC/AC Inverters
- Solar Charge Controllers / Solar Inverters
- Rechargeable Fans

**Quatron products** are 100% exported, with main presences in Africa, Middle East, Eastern Europe, South Asia.

**Quatron factory** has a total floor space of over 5,000 square meters and about 100 employees, including 7 engineers and technical personnel. With excellent capabilities for technological research and development, our experienced staff, advance machinery, and strong technical force provide a good foundation for large-scale production. At present our monthly output stands at 60,000pcs. Our past product success has been attributable to our high product quality, stylish appearance, and reasonable pricing.

**Quatron** has established a comprehensive quality control system with all processing strictly conforming to international standards. our main products meet a variety of international standards including CE (EMC, LVD), etc. Additionally, our company ascribes to the principle of "first class quality at reasonable prices" , thus we are able to offer our customers high-quality products and premium service.

Looking into the future, **Quatron** envisions continued product improvement, style enhancement, and expansion of our product lines to accommodate future customers' needs.

Let **Quatron** be your reliable partner!



**Quatron**  
building the quality power

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# New RELAY TYPE AUTOMATIC VOLTAGE REGULATOR



**AVR-N Series**  
500-5,000VA



**AVR-P Series**  
500-5,000VA



**AVR-Q Series**  
500-5,000VA



**AVR-S Series**  
500-5,000VA



**AVR-B Series**  
500-5,000VA



**AVR-G Series**  
500-5,000VA



**AVR-L Series**  
500-5,000VA



**AVR-M Series**  
500-5,000VA



**AVR-A Series**  
500-5,000VA



**AVR-H Series**  
500-5,000VA



**AVR-F Series**  
500-5,000VA



**AVR-I Series**  
500-5,000VA



**AVR-W Series**  
500-5,000VA



**AVR-ECO-A Series**  
500-5,000VA



**AVR-ECO-B Series**  
500-5,000VA

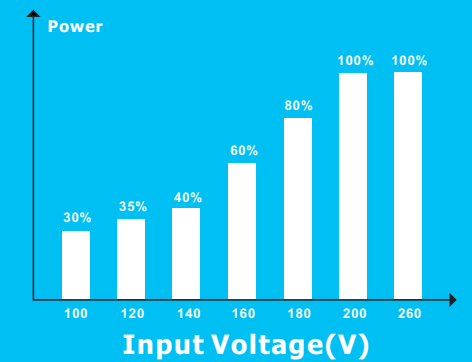


**AVR-K Series**  
500-5,000V

## Features

- CPU based control circuit.
- High efficiency C.R.G.O. transformer or EI transformer.
- High voltage protection.
- Low voltage protection.
- Transformer overheat protection.
- Short circuit protection.
- Optional overload protection.
- Selectable 6s/180s delay time.

## Typical Loading Capability



## Specification

Technology		CPU based circuit+EI transformer or Toroidal Transformer
Input	Input Voltage	140-260V/120-260V/100-260V or 80-140V
	Input Frequency	50-60Hz auto sensing
Output	Rated Output Voltage	220V/230V or 110V/120V
	Output Voltage Precision	±10% / ±8%
	Output Frequency	Same as input frequency
Efficiency		>95%
Display		Analogue meter /Digital meter /LED Graphic Colorful Display
LED Indicator		Power on (In use),Delaying,Protecting(Unusual)
Protection	High Voltage	Yes
	Low Voltage	Yes
	Overheat	Yes
	Overload	Optional
	Short Circuit	Yes,fuse or circuit breaker
	Delay Time	6s/180s selectable
Operating Condition	Operating Temperature	0°C -40°C
	Storage Temperature	-15°C- +45°C
	Operating Humidity	<90% , non-condensing

# New

## SERVO MOTOR TYPE AUTOMATIC VOLTAGE REGULATOR

### Features

- Precision servo motor technology.
- Digital or analogue display.
- High voltage protection.
- Low voltage protection.
- Transformer overheat protection.
- Short circuit protection.
- Optional overload protection.
- Selectable 6s/180s delay time.



**SVC-A Series**  
500-10,000VA

**SVC-B Series**  
500-10,000VA

### Specification

Technology		Servo motor technology
Input	Input Voltage	140-260V or 80-140V
	Input Frequency	50-60Hz auto sensing
Output	Rated Output Voltage	220V/230V or 110V/120V
	Output Voltage Precision	±3% / ±1%
	Output Frequency	Same as input frequency
Efficiency		>95%
Display		Analogue meter /Digital meter /LED Graphic Colorful Display
LED Indicator		Power on (In use),Delaying,Protecting(Unusual)
Protection	High Voltage	Yes
	Low Voltage	Yes
	Overheat	Yes
	Overload	Optional
	Short Circuit	Yes,fuse or circuit breaker
	Delay Time	6s/180s selectable
Operating Condition	Operating Temperature	0°C -40°C
	Storage Temperature	-15°C - +45°C
	Operating Humidity	<90% , non-condensing

## RELAY/SERVO MOTOR TYPE AUTOMATIC VOLTAGE REGULATOR

### Packing Information

Series	Capacity	Machine Size (W x H x D mm)	NW/Unit (kgs)	Carton Size (L x W x H mm)	GW/Unit (kgs)	Qty/Ctn (kgs)
AVR -A	500 VA	225 x 120 x145	3.20	505 x 280 x 175	13.56	4
AVR -B	1,000 VA	255 x 140 x 170	4.50	600 x 310 x 210	19.35	4
AVR -G	1,500 VA	255 x 140 x 170	5.80	600 x 310 x 210	25.00	4
AVR -I	2,000 VA	255 x 140 x 170	6.50	600 x 310 x 210	27.25	4
AVR -L	3,000 VA	305 x 220 x 250	11.70	360 x 270 x 320	12.30	1
AVR -N	5,000 VA	305 x 220 x 250	15.50	360 x 270 x 320	16.50	1
AVR -P	500 VA	220 x 115 x 145	3.20	530 x 280 x 355	13.56	8
AVR -S	1,000 VA	235 x 125 x 150	4.40	560 x 285 x 185	19.35	4
AVR -W	1,500 VA	235 x 145 x 180	5.80	640 x 320 x 230	25.00	4
AVR -F	2,000 VA	280 x 160 x 210	6.50	690 x 320 x 250	27.25	4
AVR -K	3,000 VA	345 x 210 x 270	11.70	380 x 250 x 310	12.30	1
AVR -K	5,000 VA	345 x 210 x 270	15.50	380 x 250 x 310	16.50	1
AVR -K	500 VA	170 x 190 x 130	2.60	450 x 245 x 350	12.10	4
AVR -K	1,000 VA	190 x 210 x 145	4.40	480 x 260 x 395	19.50	4
AVR -K	1,500 VA	190 x 210 x 145	5.35	480 x 260 x 395	24.00	4
AVR -K	2,000 VA	190 x 210 x 145	5.75	480 x 260 x 395	25.00	4
AVR -K	3,000 VA	255 x 230 x 220	11.20	550 x 345 x 285	26.00	2
AVR -K	5,000 VA	255 x 230 x 220	14.90	550 x 345 x 285	32.00	2
AVR -ECO	300 VA	200 x 120 x 115	1.63	540 x 260 x 280	14.30	8
AVR -ECO	500 VA	200 x 120 x 115	2.04	540 x 260 x 280	17.60	8
AVR -ECO	1,000 VA	200 x 120 x 115	2.56	540 x 260 x 280	21.80	8

Series	Capacity	Machine Size (W x H x D mm)	NW/Unit (kgs)	Carton Size (L x W x H mm)	GW/Unit (kgs)	Qty/Ctn (kgs)
SVC -A SVC -B	500 VA	220 x 140 x 170	3.8	490 x 300 x 390	27.00	4
	1,000 VA	265 x 170 x 170	4.6	310 x 200 x 260	6.00	1
	1,500 VA	265 x 170 x 170	5.9	345 x 205 x 235	7.00	1
	2,000 VA	265 x 170 x 170	7.1	345 x 205 x 235	7.50	1
	3,000 VA	320 x 220 x 230	12.0	395 x 270 x 300	13.40	1
	5,000 VA	320 x 220 x 230	13.0	395 x 270 x 300	15.00	1
	8,000 VA	400 x 280 x 220	23.0	480 x 360 x 310	24.55	1
	10,000 VA	400 x 280 x 220	25.0	480 x 360 x 310	27.00	1

# New INDUSTRIAL SERVO MOTOR TYPE VOLTAGE REGULATOR



**TND Series**  
Single Phase, 10K-30KVA

**TNS Series**  
Three Phase, 10K-100KVA

## Features

- CPU based control circuit.
- High efficiency C.R.G.O. transformer or EI transformer
- High voltage protection.
- Low voltage protection.
- Transformer overheat protection.
- Short circuit protection.
- Optional overload protection.
- Selectable 6s/180s delay time.



## Specification

Model		TND (Single Phase)	TNS (Three Phase)
Input	Input Voltage	150-260V	280-450V
	Input Frequency	50-60Hz auto sensing	
Output	Rated Output Voltage	220V/230V	380V/400V
	Output Voltage Precision	±3% / ±1%	
	Output Frequency	Same as input frequency	
Efficiency		>95%	
Display		Input Voltage, Output Voltage	Input Voltage, Output Voltage, Output Current
LED Indicator		Power on , Under Voltage, Over Voltage,	
Protection	High Voltage	Yes	
	Low Voltage	Yes	
	Overheat	Yes	
	Overload	Optional	
	Short Circuit	Yes	
	Delay Time	6s/180s selectable	
Operating Condition	Operating Temperature	0°C-40°C	
	Storage Temperature	-15°C-+45°C	
	Operating Humidity	-90% , non-condensing	

## Packing Information

Series	Capacity	Machine Size (W x H x D cm)	NW (kgs)	Pallet Size (L x W x H cm)	GW (kgs)
TND -	10K VA	315 x 340 x 540	37.00	390 x 360 x 620	39.30
	15K VA	340 x 380 x 650	50.00	435 x 390 x 765	52.00
	20K VA	340 x 380 x 650	55.00	435 x 390 x 765	57.00
	30K VA	380 x 420 x 780	68.00	475 x 430 x 895	73.00
TNS -	10K VA	315 x 340 x 745	34.00	321 x 345 x 748	36.00
	15K VA	336 x 360 x 850	47.00	365 x 342 x 853	49.00
	20K VA	460 x 420 x 890	94.00	420 x 460 x 885	100.00
	30K VA	460 x 420 x 890	103.00	420 x 460 x 885	108.00
	50K VA	550 x 455 x 1145	145.00	451 x 550 x 1155	175.00

# New

## MODIFIED SINE WAVE UNINTERRUPTIBLE POWER SUPPLY

### OFF-LINE UPS



**UPS-L Series**  
500-1,500VA



**UPS-D Series**  
500-1,500VA

## Specification

Technology	Off-line technology	
AC Input	Input Voltage	165-275V/145-275V
	Input Frequency	50-60Hz auto sensing
AVR Output	Output Voltage	220V/230V $\pm$ 10%
	Output Frequency	Same as input frequency
	Efficiency	>95%
Inverter Output	Output Voltage	220V/230V $\pm$ 10%
	Output Frequency	50Hz/60Hz $\pm$ 0.1Hz
	Output Waveform	Modified sine wave
	Efficiency	>75%
Battery Charger	Battery Type	Lead acid battery
	Battery Placement	External
	Charging Mode	3 stage
	Charging Current	6A max
Display	LCD / LED Graphic Colorful Display	
Communication Port (Optional)	RS232/USB	
Protection	Overload	Yes, 110% for 30s
	Overheat	Yes
	Battery Over-Charge	Yes
	Battery Over-Discharge	Yes
	Battery Reverse Polarity	Yes
	Short Circuit	Yes
Operating Condition	Operating Temperature	0°C -40°C
	Storage Temperature	-15°C -+45°C
	Operating Humidity	<90% , non-condensing

## Packing Information

Series	Capacity	Battery Volt.	Machine Size (W x H x D mm)	NW/Unit (kgs)	Carton Size (L x W x H mm)	Qty/Ctn (kgs)
UPS -L	500VA/300W	12Vdc	102 x 155 x 345	4.90	580 x 410 x 210	2
	650VA/390W	12Vdc	140 x 215 x 365	7.00	580 x 410 x 210	2
	800VA/480W	12Vdc	140 x 215 x 365	10.00	580 x 410 x 210	2
	1,000VA/600W	24Vdc	140 x 215 x 365	20.45	415 x 330 x 235	1
	1,200VA/720W	24Vdc	140 x 215 x 365	21.00	415 x 330 x 235	1
UPS -D	500VA/300W	12Vdc	102 x 155 x 345	4.90	580 x 410 x 210	2
	650VA/390W	12Vdc	140 x 215 x 365	7.00	580 x 410 x 210	2
	800VA/480W	12Vdc	140 x 215 x 365	10.00	580 x 410 x 210	2
	1,000VA/600W	24Vdc	140 x 215 x 365	20.45	415 x 330 x 235	1
	1,200VA/720W	24Vdc	140 x 215 x 365	21.00	415 x 330 x 235	1

## Application

- IT appliances like PC, server, printer, scanner, etc.
- Home appliances like TV, fan, lighting, etc.

## Features

- Modified sine wave output.
- Built-in AVR function.
- Battery over-charge protection.
- Battery low voltage alarm and protection.
- Battery reverse connection protection.
- Overload protection.



# New PURE SINE WAVE UNINTERRUPTIBLE POWER SUPPLY

## LINE-INTERACTIVE UPS



**PSF Series**  
300-5,000VA, Table Type



**PSG Series**  
300-5,000VA, Table Type



**PSH Series**  
300-5,000VA, Table Type



**PSA Series**  
300-5,000VA, Tower Type



**PSB Series**  
300-5,000VA, Tower Type



**PSC Series**  
300-5,000VA, Tower Type



**PSD Series**  
500-2,000VA, Desktop Type



**PSE Series**  
500-2,000VA, Desktop Type



**PSI-WM Series**  
300-1,500VA, Wall Mount Type

### Application

- IT appliances like PC, server, printer, scanner, etc.
- Home heating system like gas boiler, pump, etc.
- Home appliances like TV, fan, lighting, refrigerator, etc.

### Features

- LT technology - Long time backup design.
- Pure sine wave output for all kinds of appliances.
- Power battery charger, max charging current 15A.
- Built-in AVR function
- Battery over-charge protection.
- Battery low voltage alarm and protection.
- Battery reverse connection protection.
- Overload protection.

### Specification

Technology		LT technology + Line-interactive technology
AC Input	Input Voltage	165-275V/145-275V/120-275V
	Input Frequency	50-60Hz auto sensing
AVR Output	Output Voltage	220V/230V ±10%
	Output Frequency	Same as input frequency
	Efficiency	>95%
Inverter Output	Output Voltage	220V/230V ±5%
	Output Frequency	50Hz/60Hz ±0.1Hz
	Output Waveform	Pure sine wave
	Efficiency	>75%
Battery Charger	Battery Type	Lead acid battery
	Battery Placement	External
	Charging Mode	3 stage
	Charging Current	15A max
Display		LCD / LED Graphic Colorful Display
Communication Port (Optional)		RS232/USB
Protection	Overload	Yes, 110% for 30s
	Overheat	Yes
	Battery Over-Charge	Yes
	Battery Over-Discharge	Yes
	Battery Reverse Polarity	Yes
	Short Circuit	Yes
Operating Condition	Operating Temperature	0°C-40°C
	Storage Temperature	-15°C - +45°C
	Operating Humidity	<90% , non-condensing

### Packing Information

Series	Capacity	Battery Volt.	Machine Size (W x H x D mm)	GW/Ctn (kgs)	Carton Size (L x W x H mm)	Qty/Ctn (kgs)
PSA - PSB - PSC - PSF - PSG - PSH -	500VA/300W	12Vdc	102 x 155 x 345	13.35	415 x 375 x 265	2
	800VA/480W	12Vdc	140 x 215 x 365	18.0	415 x 375 x 265	2
	1,000VA/600W	12/24Vdc	140 x 215 x 365	24.5	415 x 375 x 265	2
	1,500VA/900W	24Vdc	140 x 215 x 365	26.75	415 x 375 x 265	2
	2,000VA/1,200W	24/48Vdc	140 x 215 x 365	21.0	415 x 375 x 265	1
	3,000VA/1,800W	48Vdc	192 x 357 x 430	25.0	480 x 250 x 390	1
PSE - PSD -	500VA/300W	12Vdc	192 x 357 x 430	35.0	480 x 250 x 390	1
	500VA/300W	12Vdc	210 x 300 x 120	13.35	415 x 375 x 265	2
	800VA/480W	12Vdc	210 x 300 x 120	18.0	415 x 375 x 265	2
	1,000VA/600W	12/24Vdc	360 x 190 x 165	24.5	415 x 375 x 265	2
	1,500VA/900W	24Vdc	360 x 190 x 165	26.75	415 x 375 x 265	2
	2,000VA/1,200W	24/48Vdc	192 x 357 x 430	21.0	415 x 375 x 265	1
PSI -WM	300VA/180W	12Vdc	300 x 155 x 140	24.0	405 x 315 x 365	4
	500VA/300W	12Vdc	300 x 155 x 140	28.5	405 x 315 x 365	4
	800VA/480W	12Vdc	360 x 190 x 165	18.5	435 x 330 x 185	2
	1,000VA/600W	12/24Vdc	360 x 190 x 165	20.5	480 x 380 x 220	2
	1,500VA/900W	24Vdc	360 x 190 x 165	29.0	480 x 380 x 220	2



# New

## DC/AC INVERTER PURE SINE WAVE

### Features

- High frequency pure sine wave inverter.
- Durable aluminum case.
- 100% full power.
- Stable AC output voltage.
- Low voltage protection.
- Full protection.



**IPS Series**  
300-3,000VA

### Specification

Model No.	IPS-300	IPS-500	IPS-1000	IPS-2000	IPS-3000
Continuous Power	300W	500W	1000W	2000W	3000W
Peak Power	600W	1000W	2000W	4000W	6000W
Input Voltage	12VDC (9.5VDC-15.5VDC)				
Rated Output Voltage	220VAC / 230VAC				
Output Voltage Range	±10%				
Output Frequency	50Hz / 60Hz				
Output Wave Form	Pure Sine Wave				
Efficiency	>85%				
Indicators & Display	Green LED: Normal Working; Red LED: Faulty; Meter: Output Voltage				
Protection	Overload, Overheat, Battery Low Voltage, Output Low Voltage, Output High Voltage, Battery Reverse Connection				
Cooling Fan	Yes				
Operating Temperature	0°C - 40°C				
Operating Humidity	<90%, non-condensing				
Machine Size (LxWxH mm)	200x100x60	220x100x60	390x200x80	500x200x80	450x200x160
Machine Size	0.8kgs	0.9kgs	2.7kgs	4.2kgs	5.8kgs

# New

## DC/AC INVERTER MODIFIED SINE WAVE

### Features

- High frequency modified sine wave inverter.
- Durable aluminum case.
- 100% full power.
- Stable AC output voltage.
- Low voltage protection.
- Full protection.
- Additional 5VDC USB output.



**IMS Series**  
500-3,000VA

### Specification

Model No.	IMS-500	IMS-1000	IMS-1500	IMS-2000	IMS-3000
Continuous Power	500W	1000W	1500W	2000W	3000W
Peak Power	1000W	2000W	3000W	4000W	6000W
Input Voltage	12VDC (9.5VDC-15.5VDC)				
Rated Output Voltage	220VAC / 230VAC				
Output Voltage Range	±10%				
Output Frequency	50Hz / 60Hz				
Output Wave Form	Modified Sine Wave				
Efficiency	>80%				
Indicators & Display	Green LED: Normal Working; Red LED: Faulty				
Protection	Overload, Overheat, Battery Low Voltage, Output Low Voltage, Output High Voltage, Battery Reverse Connection				
Cooling Fan	Yes				
USB Output	5VDC, 800mA				
Operating Temperature	0°C - 40°C				
Operating Humidity	<90%, non-condensing				
Machine Size (LxWxH mm)	235x102x58	295x138x65		325x138x65	
Machine Size	1.0kgs	1.8kgs	1.8kgs	4.2kgs	5.8kgs



# New

## SOLAR CHARGE CONTROLLER

### Features

- LED/LCD Display.
- PWM control mode.
- Battery 12VDC/24VDC automatic sensing.
- Three stage smart charging mode.
- Automatic low voltage cutoff and restore.
- Battery overcharge and over-discharge protection.
- Overload protection.
- PV reverse connection protection.
- Battery reverse connection protection.
- Short circuit protection.

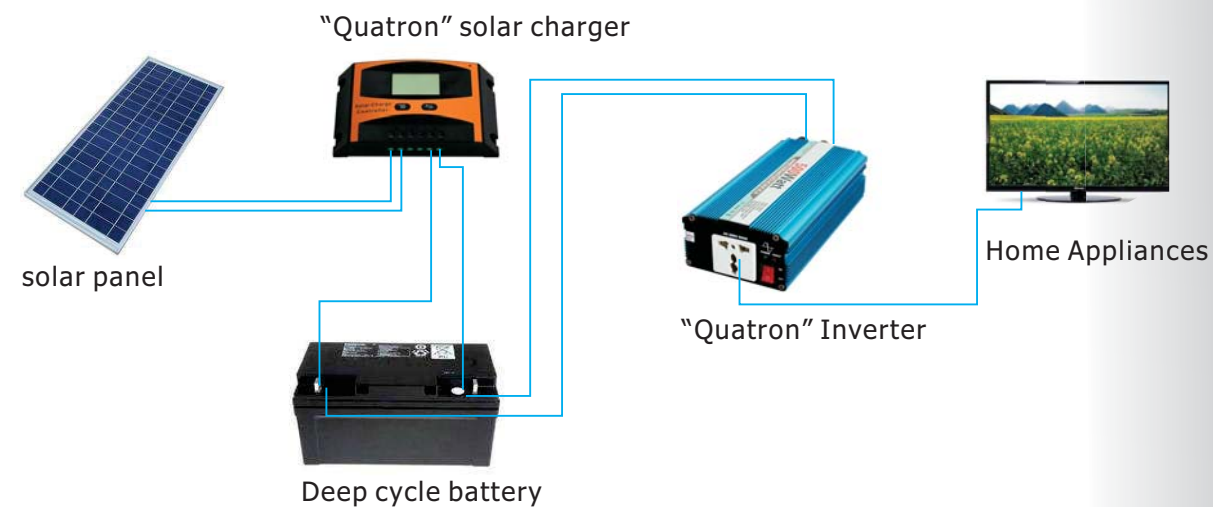


**SCA Series**  
10A-60A



**SCB Series**  
10A-50A

### Solar Charge Controller Demo



### Specification

System Voltage (Battery Voltage)	12VDC/24VDC Auto Sensing
Control Mode	PWM
Efficiency	>95%
Max. PV Input Voltage	50VDC
Idle Current	<50mA
Voltage Drop	<220mV
Indicators & Display	LED/LCD
Protection	Overload, Overheat, Battery Low Voltage, Battery Over Charge, PV Reverse Connection, Battery Reverse Connection, Short Circuit
Bulk Charging Voltage	14.4VDC / 28.8VDC
Floating Charging Voltage	13.7VDC / 27.4VDC
Overcharge Disconnect	15.0VDC / 30.0VDC
Overcharge Re-connect	13.7VDC / 27.4VDC
Battery Low Voltage Cutoff	10.5VDC / 21.0VDC
Battery Low Voltage Restore	11.5VDC / 23.0VDC
Operating Temperature	0°C - 40°C
Operating Humidity	<90%, non-condensing

Model No.	SCA-10	SCA-20	SCA-30	SCA-40	SCA-50	SCA-60
System Voltage	12VDC/24VDC Auto Sensing					
Rated Output Current	10A	20A	30A	40A	50A	60A
Machine Size (LxWxH)	168x93x40 mm		215x120x52 mm		200x125x55 mm	
Machine Size	320g	320g	400g	400g	720g	720g

Model No.	SCB-10	SCB-15	SCB-20	SCB-30	SCB-40	SCB-50
System Voltage	12VDC/24VDC Auto Sensing					
Rated Output Current	10A	15A	20A	30A	40A	50A
Machine Size (LxWxH)	164x100x48 mm			164x110x49 mm	183x120x69 mm	
Machine Size	350g	350g	400g	500g	750g	750g



# New PURE SINE WAVE SOLAR INVERTER WITH HYBRID CHARGER



SPS Series

## Features

- Transformer based pure sine wave inverter, suitable for all kinds of home appliances.
- Built-in solar charger, 50A max.
- Built-in AC charger, 10A max.
- Three stage smart charging mode for both solar charger and AC charger.
- Transfer time less than 4ms, won't restart your sensitive appliances.
- Battery overcharger and over-discharger protection.
- Overload protection.
- PV reverse connection protection.
- Battery reverse connection protection.
- Short circuit protection.
- Modular design for easy after-sale service.



## Specification

Model No.	SPS-0.5K	SPS-0.7K	SPS-1K	SPS-1.5K	SPS-2K	SPS-3K
Capacity in VA	500 VA	700 VA	1,000 VA	1,500 VA	2,000 VA	3,000 VA
Capacity in W	350 W	490 W	700 W	1,050 W	1,400 W	2,100 W
Battery Voltage	12VDC	24VDC				48VDC
<b>Solar Charger</b>						
Control Mode	PWM					
Max. Charging Current	20A	20A	20A	30A	50A	50A
Bulk Charging Voltage	14.8VDC	29.6VDC				59.2VDC
Equalizing Charging Voltage	14.4VDC	28.8VDC				57.6VDC
Floating Charging Voltage	13.8VDC	27.6VDC				55.2VDC
Recovery Charging Voltage	14.8VDC	26.6VDC				53.2VDC
Overcharge Cutoff	14.8VDC	33.0VDC				66.0VDC
Charge Restore	14.8VDC	30.0VDC				60.0VDC
Protection	Overcharge, Short Circuit, PV Reverse Connection, Overheat					
LED Indicator	Battery Capacity					
<b>Inverter Mode</b>						
Technology	Transformer Based Low Frequency					
Output Voltage	110V/120V/127V/220V/230V ±5%					
Output Frequency	50Hz/60Hz ±0.1Hz					
Efficiency	>85%					
Output Waveform	Pure sine Wave					
Overload	>110% for 30s, >120% for 2s					
Protection	Overload, Short Circuit, Battery Reverse Connection, Battery Low Voltage, Overheat					
<b>AC Mode</b>						
AC Input Voltage	110V/120V/127V/220V/230V ±25%					
Input Frequency	45-65Hz					
Output Voltage	Same as input voltage					
Output Frequency	Same as input frequency					
AC Charging Current	10A					
LCD Display	Input Voltage, Output Voltage, Battery Capacity, Overload, Battery Mode, etc					
<b>Other</b>						
Transfer Time	<4ms					
AC Priority /Solar Priority	Optional, through selective switch					
Operating Temperature	0°C - 40°C					
Operating Humidity	<90%, non-condensing					
Machine Size (LxWxH)	320x210x125 mm	420x145x215 mm		400x180x320 mm		425x200x335 mm
Net Weight	11.0kgs	14.0kgs	16.0kgs	20.0kgs	23.0kgs	31.0kgs

## Specification

Model No.	SPS-4K	SPS-5K	SPS-7K	SPS-10K	SPS-15K	SPS-20K
Capacity in VA	4,000 VA	5,000 VA	7,000 VA	10,000 VA	15,000 VA	20,000 VA
Capacity in W	2,800 W	3,500 W	4,900 W	7,000 W	10,500 W	14,000 W
Battery Voltage	48VDC		96VDC		192VDC	
<b>Solar Charger</b>						
Control Mode	PWM					
Max. Charging Current	50A					
Bulk Charging Voltage	59.2VDC		118.4VDC		236.8VDC	
Equalizing Charging Voltage	57.6VDC		115.2VDC		230.4VDC	
Floating Charging Voltage	55.2VDC		110.4VDC		220.8VDC	
Recovery Charging Voltage	53.2VDC		106.4VDC		212.8VDC	
Overcharge Cutoff	66.0VDC		132.0VDC		264.0VDC	
Charge Restore	60.0VDC		120.0VDC		240.0VDC	
Protection	Overcharge, Short Circuit, PV Reverse Connection, Overheat					
LED Indicator	Battery Capacity					
<b>Inverter Mode</b>						
Technology	Transformer Based Low Frequency					
Output Voltage	220V/230V ±5%					
Output Frequency	50Hz/60Hz ±0.1Hz					
Efficiency	>85%					
Output Waveform	Pure sine Wave					
Overload	>110% for 30s, >120% for 2s					
Protection	Overload, Short Circuit, Battery Reverse Connection, Battery Low Voltage, Overheat					
<b>AC Mode</b>						
AC Input Voltage	220V/230V ±25%					
Input Frequency	45-65Hz					
Output Voltage	Same as input voltage					
Output Frequency	Same as input frequency					
AC Charging Current	10A					
LCD Display	Input Voltage, Output Voltage, Battery Capacity, Overload, Battery Mode, etc					
<b>Other</b>						
Transfer Time	<4ms					
AC Priority /Solar Priority	Optional, through selective switch					
Operating Temperature	0°C - 40°C					
Operating Humidity	<90%, non-condensing					
Machine Size (LxWxH)	465x245x465 mm		486x300x655 mm		580x350x700 mm	
Net Weight	48.0kgs	62.0kgs	67.0kgs	97.0kgs	137.0kgs	117.0kgs

## Typical Backup Time

Model NO.	Rated Capacity.	DCVoltage.	No. ofBattery	Battery Size	Backup Time (Hour)
PSI-500 WM-PSI-500 PSD-500 PSE-500	300W	12VDC	1	12V/50AH	1.24
				12V/75AH	1.85
				12V/100AH	2.47
				12V/150AH	3.71
				12V/200AH	4.95
PSI-800 WM-PSI-800 PSD-800 PSE-800	480W	12VDC	1	12V/50AH	0.77
				12V/75AH	1.66
				12V/100AH	1.55
				12V/150AH	2.32
				12V/200AH	3.09
PSI-1000 WM-PSI-1000 PSD-1000 PSE-1000	600W	24VDC	2	12V/50AH	1.24
				12V/75AH	1.85
				12V/100AH	2.47
				12V/150AH	3.70
				12V/200AH	4.94
PSI-1500 WM-PSI-1500 PSD-1500 PSE-1500	900W	24VDC	2	12V/50AH	0.82
				12V/75AH	1.24
				12V/100AH	1.65
				12V/150AH	2.47
				12V/200AH	3.30
PSI-2000 WM-PSI-2000 PSD-2000 PSE-2000	1200W	24VDC	2	12V/50AH	0.62
				12V/75AH	0.93
				12V/100AH	1.24
				12V/150AH	1.85
				12V/200AH	2.47

# New

## VOLTAGE CONVERTER

### STEP UP AND STEP DOWN TRANSFORMER



**VT Series**  
300-5,000VA

## Specification

Input Voltage	220V/240V or 110V/120V
Input Frequency	110V/120V or 220V/240V
LED Indicator	Power on
Circuit Protection	Fuse or Air Breaker
Operating Temperature	0°C-40°C
Storage Temperature	-15°C- +45°C
Operating Humidity	<90% , non-condensing

## Packing Information

Model No.	Capacity (Step Down)	Capacity (Step Up)	GW (kgs/ctn)	Packing Size (W x H x D)	Qty/Ctn (pcs)
VT-500	500 VA	300 VA	17.90	340x260x395	4
VT-1000	1,000 VA	600 VA	6.15	265x190x205	1
VT-1500	1,500 VA	900 VA	6.80	265x190x205	1
VT-2000	2,000 VA	1,200 VA	12.15	355x240x255	1
VT-3000	3,000 VA	1,800 VA	15.95	355x240x255	1
VT-5000	5,000 VA	3,000 VA	18.40	355x240x255	1

# New

## RECHARGEABLE FAN

### Features

- Multi-angle tilting neck.
- 3 speed selectable.
- Timer function.
- Built-in Li battery.
- 12VDC adapter.
- Optional remote control.
- Optional solar panel and solar charger.
- Optional 5VDC USB charging port.

### Specification

Size	16"	
AC Input Voltage	100-240V	
Solar Charger	12VDC	
Charging Time	4-6 Hours	
Working Time	Speed 1 : 900 RPM	9 Hours
	Speed 2: 1050 RPM	6 Hours
	Speed 3: 1250 RPM	4 Hours



**RC Series**  
RC-16B



**RC Series**  
RC-16A