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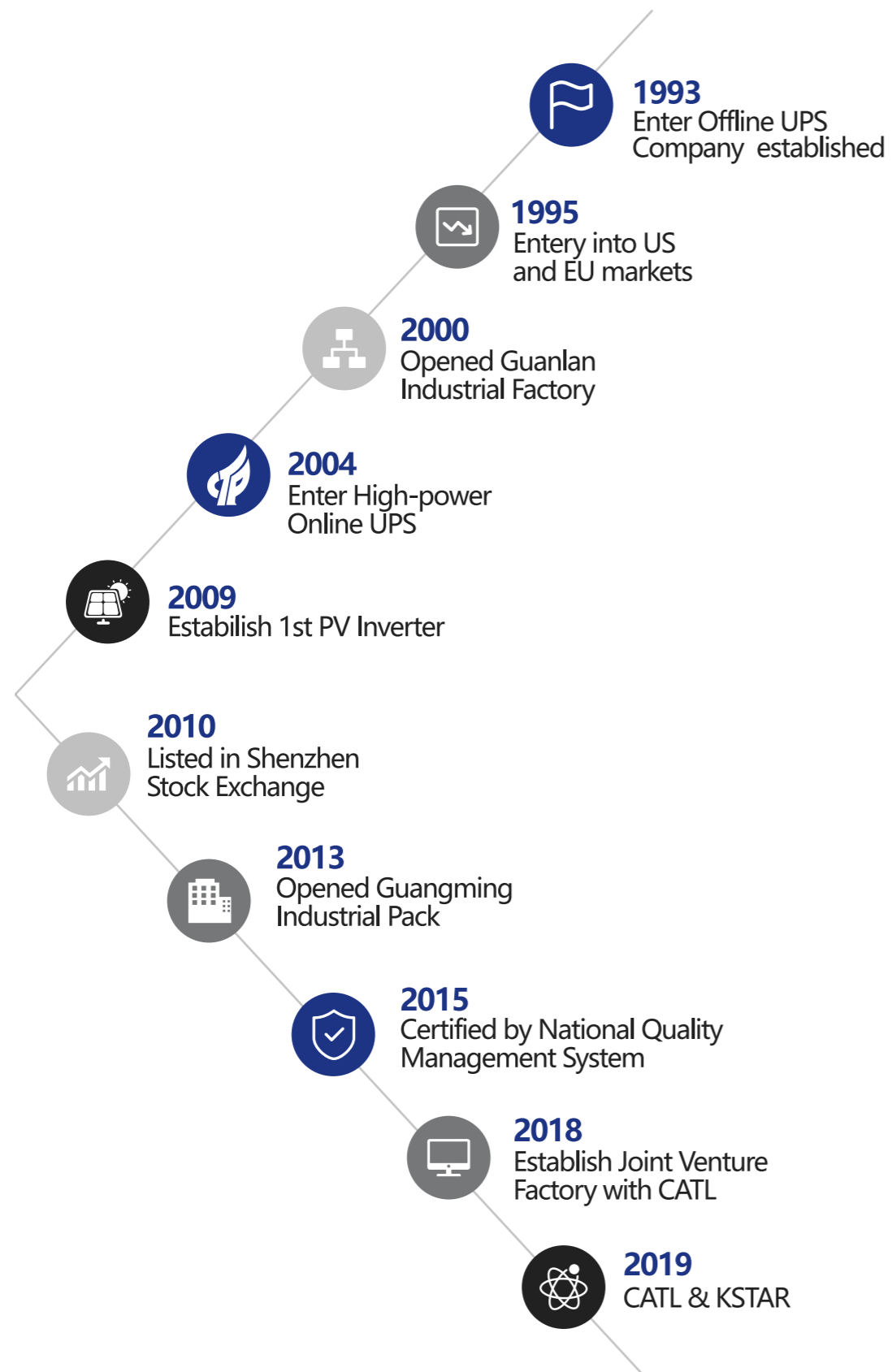
KSTAR

Website: www.kstar.com

KSTAR Line Interactive UPS | AVR

-Data Center Product Line -

About KSTAR



► TECHNOLOGY, INNOVATION AND THE HISTORICAL INDUSTRIAL EXPERIENCE OF KSTAR FROM TODAY AVAILABLE FOR EVERY HOME

Founded in 1993, Shenzhen KSTAR Science & Technology Co., Ltd (Stock Code:002518) is a National Torch Plan Key High-tech Enterprise, and also a pioneer of UPS industry and a total solution provider for Data Center Critical Infrastructure & PV Inverter Systems in Mainland China.

KSTAR is fully committed to the R&D and has been providing high-quality products with full service to over 90 countries and regions worldwide, leading the industrial development with innovation.

► Office and service center globally



1	Line Interactive UPS	
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General introduction

This UPS is specially designed for Personal Computer with multi-functions. Its light weight, compact design perfect fits to the limited working environment. The line of UPS is equipped with one boost and one buck AVR to stabilize input voltage range. It is also built-in with DC start function. This function enables the UPS to be started up without AC power supply. Although it's a small UPS, the main features of UPS are listed below:

Features

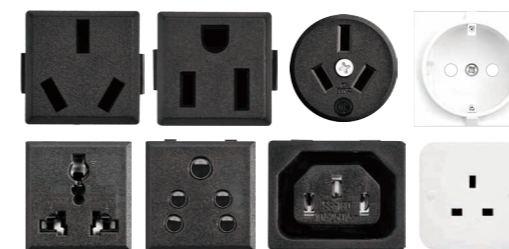
- Line Interactive UPS with simulated sinewave output
- Excellent microprocessor control guarantees high reliability (Internal self-diagnostic technology)
- Boost and buck AVR for voltage stabilization (One boost and one buck control)
- Auto restart while AC is recovering
- Cold start function
- Off-mode charging
- Fast intelligent battery recharge function
- Offering LED and LCD panels for selections
- Optional Generator compatible
- Optional USB/RS232 communication port and RJ11 /RJ45 protection



Two kinds of color LCD display

LED display

- ① AC input
- ② Output socket
- ③ USB & RJ11 communication
- ④ USB & RS232 communication
- ⑤ RJ45



Optional socket



Rear Panel

Technical Specifications

Model	Micropower 400	Micropower 600	Micropower 800	Micropower 1K	Micropower 1.2K	Micropower 1.5K	Micropower 2K
Capacity	400VA/240W	600VA/360W	800VA/480W	1000VA/600W	1200VA/720W	1500VA/900W	2000VA/1200W

INPUT

Nominal Input Voltage	110/120 Vac or 220/230/240 Vac
Operating Voltage Range	81 ~ 145 Vac/162 ~ 290 Vac
Operating Frequency Range	60/50Hz (Auto sensing)

OUTPUT

AC Voltage Regulation (Batt. Mode)	± 10%
Frequency Range (Batt. Mode)	60/50Hz ± 1 Hz
Transfer Time	Typical 2~6ms, 10ms Max.
Waveform (Batt. Mode)	Simulated Sinewave

BATTERY

Battery Voltage	12Vdc	24Vdc
Battery Type & Number	12 V/4.5 Ah x 1 12 V/7Ah x 1 12 V/9 Ah x 1	12 V/7 Ah x 2 12 V/7 Ah x 2 12 V/9 Ah x 2 12 V/9 Ah x 2
Typical Recharge Time	4 ~ 6 hours recover to 90% capacity	6 ~ 8 hours recover to 90% capacity

INDICATORS

LED Display(LED version)	AC Mode, Battery Mode, Overload, Fault
LCD Display(LCD version)	AC Mode, Battery Mode, Load Level, Battery Level, Input Voltage, Output Voltage, Overload, Fault, and Battery Low

PROTECTION

Full Protection	Short circuit, Overload , Overcharge and overdischarge protection
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ALARM

Battery mode	Sounding every 10 seconds
Low Battery	Sounding every second
Overload	Sounding every 0.5 second
Battery Replacement Alarm	Sounding every 2 seconds
Fault	Continuously sounding

MANAGEMENT

Communication port	USB or RS232(Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7, Linux, Unix, and MAC)
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OPERATING ENVIRONMENT

Humidity	0~90 % RH @ 0~ 40° C (non-condensing)
Noise Level	Less than 45dB Less than 55dB

PHYSICAL

Approx. Dimension (D×W×H)	298 × 101 × 142mm	353 × 149 × 162mm	380 × 158 × 198mm
Approx. Net Weight	Approx. 3.8kg Approx. 4.3kg Approx. 4.9kg	Approx. 7.8kg Approx. 8.4kg Approx. 10.1kg	Approx. 10.5kg
Safety	IEC/EN 62040-1; IEC/EN 60950-1		
EMC	IEC/EN 62040-2; IEC 61000-4-2; IEC 61000-4-3; IEC 61000-4-4; IEC 61000-4-5; IEC 61000-4-6; IEC 61000-4-8		
Performance	IEC/EN 62040-3		

1. Specifications are subject to change without prior notice
2. Data above are typical values for reference only, not as a basis for engineering design

Technical Specifications

MODEL	Micropower 2.4K	Micropower 3K
Capacity(VA/Watts)	2400VA/1440W	3000VA/1800W

INPUT

Voltage	220/230/240Vac
Voltage Range	162~290Vac
Frequency Range	60/50Hz (Auto sensing)

OUTPUT

AC Voltage Regulation (Batt. Mode)	± 10%
Frequency Range (Batt. Mode)	60/50Hz ± 1 Hz
Transfer Time	Typical 2~6ms, 10ms Max.
Waveform (Batt. Mode)	Simulated Sinewave

BATTERY

Battery Voltage	48Vdc
Battery Type & Number	12 V/7Ah x 4 12 V/9Ah x 4
Typical Recharge Time	6~8 hours recover to 90% capacity

INDICATORS

LED Display(LED version)	N/A
LCD Display(LCD version)	AC Mode, Battery Mode, Load Level, Battery Level, Input Voltage, Output Voltage, Overload, Fault, and Battery Low

PROTECTION

Full Protection	Short circuit, Overload , Overcharge and overdischarge protection
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ALARM

Battery mode	Sounding every 10 seconds
Low Battery	Sounding every second
Overload	Sounding every 0.5 second
Battery Replacement Alarm	Sounding every 2 seconds
Fault	Continuously sounding

MANAGEMENT

Communication port	USB or RS232(Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7, Linux, Unix, and MAC)
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OPERATING ENVIRONMENT

Humidity	0~90 % RH @ 0~ 40° C (Non-condensing)
Noise Level	Less than 55dB

PHYSICAL

Approx. Dimension (D×W×H)	436 × 145 × 212mm
Approx. Net Weight	Approx. 20kg Approx. 23kg
Safety	IEC/EN 62040-1; IEC/EN 60950-1
EMC	IEC/EN 62040-2; IEC 61000-4-2; IEC 61000-4-3; IEC 61000-4-5; IEC 61000-4-6; IEC 61000-4-8
Performance	IEC/EN 62040-3

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DG SERIES

600 ~ 3000VA



General introduction

This UPS is specially designed for Personal Computer with multi-functions. Its light weight, compact design perfect fits to the limited working environment. The line of UPS is equipped with two boost and one buck AVR to stabilize wide input voltage range. It is also built-in with DC start function. This function enables the UPS to be started up without AC power supply. Although it's a small UPS, The main features of UPS are listed below:

Features

- Line Interactive UPS with simulated sinewave output
- Excellent microprocessor control guarantees high reliability (Internal self-diagnostic technology)
- Boost and buck AVR for voltage stabilization (Wide input range with two boost and one buck control)
- Auto restart while AC is recovering
- Cold start function



Two kinds of color LCD display

LED display

- Off-mode charging
- Fast intelligent battery recharge function
- Generator compatible
- Offering LED and LCD panels for selections
- Optional USB/RS232 communication port and RJ11/RJ45 protection

- ① AC input
- ② Output socket
- ③ USB & RJ11 communication
- ④ USB & RS232 communication
- ⑤ RJ45



Optional socket



Rear Panel

MODEL	DG 600	DG 800	DG 1K	DG 1.2K	DG 1.5K	DG 2K	DG 2.4K	DG 3K
Capacity	600VA/360W	800VA/480W	1000VA/600W	1200VA/720W	1500VA/900W	2000VA/1200W	2400VA/1440W	3000VA/1800W
INPUT								
Voltage	220/230/240Vac							
Voltage Range	140~300Vac							
Frequency Range	50/60Hz (Auto sensing)							
OUTPUT								
AC Voltage Regulation (Batt. Mode)	± 10%							
Frequency Range (Batt. Mode)	50/60Hz ± 1 Hz							
Transfer Time	Typical 4~8ms, 13ms Max.							
Waveform (Batt. Mode)	Simulated Sinewave							
BATTERY								
Battery Voltage	12Vdc		24Vdc				48Vdc	
Battery Type & Number	12 V/Ah × 1	12 V/9Ah × 1	12 V/7Ah × 2	12 V/7Ah × 2	12 V/9Ah × 2	12 V/9Ah × 2	12 V/7Ah × 4	12 V/9Ah × 4
Typical Recharge Time	4~6 hours recover to 90% capacity				6~8 hours recover to 90% capacity			
INDICATORS								
LED Display (LED version)	AC Mode, Battery Mode, Overload, Fault						N/A	
LCD Display (LCD version)	AC Mode, Battery Mode, Load Level, Battery Level, Input Voltage, Output Voltage, Overload, Fault, and Battery Low							
PROTECTION								
Full Protection	Short circuit, Overload, Overcharge and overdischarge protection							
ALARM								
Battery mode	Sounding every 10 seconds							
Low Battery	Sounding every second							
Overload	Sounding every 0.5 second							
Battery Replacement Alarm	Sounding every 2 seconds							
Fault	Continuously sounding							
MANAGEMENT								
Communication port	USB or RS232 (Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7, Linux, Unix, and MAC)							
OPERATING ENVIRONMENT								
Humidity	0~90% RH @ 0~40° C (Non-condensing)							
Noise Level	Less than 45dB				Less than 55dB			
PHYSICAL								
Approx. Dimension (D × W × H)	298 × 101 × 142mm		353 × 149 × 162mm		380 × 158 × 198mm		436 × 145 × 212mm	
Approx. Net Weight	Approx. 4.3kg	Approx. 4.9kg	Approx. 7.8kg	Approx. 8.4kg	Approx. 10.1kg	Approx. 10.5kg	Approx. 20kg	Approx. 23kg

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AIO SERIES

600 ~ 1000VA

General introduction

The AIO All-in-One UPS series, featured with smart microprocessor control design, AVR boost and buck, Smart USB communication interface and cold start function, is an idea solution for protecting household and small office systems. In addition, the UPS is built-in USB charger, which can charge your mobile, PAD, etc.

Features

- Boost and Buck AVR corrects either under-voltage or over-voltage condition to minimize the usage of battery energy, hence to extend the life of battery
- Built-in USB charger supplies feasible access to recharge your mobile or PAD alone
- With ergonomic cable management design, all the access of the cable is from top only



Two kinds of color LCD display

LED display

- Cold Start Function
- Smart USB Interface for Power management supports real-time power and UPS status monitoring. Automatic shutdown, schedule and many other advance power management functions
- Auto-restart function enables the UPS may be automatically re-started when Utility recovers



Optional socket

- ① AC input
- ② Output socket
- ③ USB communication
- ④ USB charger



Rear Panel

Technical Specifications

Model	AIO 600	AIO 800	AIO 1K
Capacity	600VA/360W	800VA/480W	1000VA/600W

INPUT

Voltage	220/230/240Vac
Voltage Range	162 ~ 290Vac
Frequency Range	50/60Hz (1 ± 10%) auto-sensing

OUTPUT

AC Voltage Regulation (Batt. Mode)	± 10%
Frequency Range (Batt. Mode)	50/60Hz ± 1Hz
Transfer Time	Typical 2~6 ms, 10 ms Max.
Waveform (Batt. Mode)	Simulated Sinewave

BATTERY

Battery Voltage	12Vdc
Battery Type & Number	12V/7Ah x 1 12V/9Ah x 1 12V/10Ah x 1
Typical Recharge Time	6~8 hours recover to 90% capacity

INDICATORS

LED Display(LED version)	AC Mode, Battery Mode, Overload, Fault
LCD Display(LCD version)	AC Mode, Battery Mode, Load Level, Battery Level, Input Voltage, Output Voltage, Overload, Fault, and Battery Low

PROTECTION

Full Protection	Short circuit, Overload, Overcharge and overdischarge protection
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ALARM

Battery mode	Sounding every 10 seconds
Low Battery	Sounding every second
Overload	Sounding every 0.5 second
Battery Replacement Alarm	Sounding every 2 seconds
Fault	Continuously sounding

MANAGEMENT

Communication port	USB or RS232(Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7, Linux, Unix, and MAC)
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Other

USB Charger port	5Vdc/1A or 5Vdc/2A type A (For mobile or iPad charging)
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OPERATING ENVIRONMENT

Humidity	0~90 % RH @ 0~ 40° C (Non-condensing)
Noise Level	Less than 45dB

PHYSICAL

Approx. Dimension (D × W × H)	293 × 202 × 93mm	309 × 202 × 93mm	
Approx. Net Weight	Approx. 3.6kg	Approx. 4.9kg	Approx. 6.4kg
Safety	IEC/EN 62040-1; IEC/EN 60950-1		
EMC	IEC/EN 62040-2; IEC 61000-4-2; IEC 61000-4-3; IEC 61000-4-4; IEC 61000-4-5; IEC 61000-4-6; IEC 61000-4-8		

Performance

	IEC/EN 62040-3
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MICROSINE SERIES

1000 ~ 2000VA



General introduction

Microsine Series are Line Interactive UPS, with pure sinewave output waveform in Batt. Mode, and they offers perfect power protection for sensitive equipment. All models provide comprehensive LCD display for users to monitor the power status. With powerful protection, it prevents your data loss from power failure, surge, and sags.

Features

- Line Interactive UPS with true sinewave output
- Excellent microprocessor control guarantees high reliability (Internal self-diagnostic technology)
- Boost and buck AVR for voltage stabilization (One boost and one buck control)
- Auto restart while AC is recovering
- Cold start function
- Off-mode charging
- Fast intelligent battery recharge function
- Optional Generator compatible
- Optional USB/RS232 communication port and RJ45 protection



Two kinds of color LCD display

- ① AC input
- ② Output socket
- ③ USB & RS232 communication
- ④ RJ45



Optional socket



Rear Panel

Technical Specifications

Model	Microsine 1K	Microsine 1.5K	Microsine 2K
Capacity	1000VA/700W	1500VA/1050W	2000VA/1400W
INPUT			
Voltage	220/230/240Vac		
Voltage Range	162 ~ 290Vac		
Frequency Range	50/60Hz (Auto sensing)		
OUTPUT			
AC Voltage Regulation (Batt. Mode)	± 10%		
Frequency Range (Batt. Mode)	50/60Hz ± 1 Hz		
Transfer Time	Typical 2~6ms, 10ms Max.		
Waveform (Batt. Mode)	Pure Sinewave		
BATTERY			
Battery Voltage	24Vdc		
Battery Type & Number	12V/7Ah x 2	12V/9Ah x 2	12V/9Ah x 2
Typical Recharge Time	6~8 hours recover to 90% capacity		
INDICATORS			
LCD Display	AC Mode, Battery Mode, Load Level, Battery Level, Input Voltage, Output Voltage, Overload, Fault, and Battery Low		
PROTECTION			
Full Protection	Short circuit, Overload, Overcharge and overdischarge protection		
ALARM			
Battery mode	Sounding every 10 seconds		
Low Battery	Sounding every second		
Overload	Sounding every 0.5 second		
Battery Replacement Alarm	Sounding every 2 seconds		
Fault	Continuously sounding		
MANAGEMENT			
Communication port	USB or RS232 (Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7, Linux, Unix, and MAC)		
OPERATING ENVIRONMENT			
Humidity	0~90 % RH @ 0~ 40° C (Non-condensing)		
Noise Level	Less than 45dB	Less than 55dB	
PHYSICAL			
Approx. Dimension (D × W × H)	353 × 149 × 162mm	380 × 158 × 198mm	
Approx. Net Weight	Approx. 8.6kg	Approx. 11.5kg	Approx. 12.3kg
EMC	IEC/EN 62040-2; IEC 61000-4-2; IEC 61000-4-3; IEC 61000-4-4; IEC 61000-4-5; IEC 61000-4-6; IEC 61000-4-8		
Performance	IEC/EN 62040-3		

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AVR SERIES

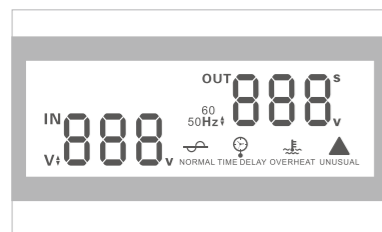
1000 ~ 5000VA



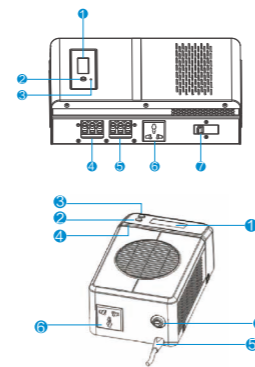
Features

- LCD display
- Delay options (6S or 120S)
- Micro-controller based design
- Wide input voltage range 100Vac~280Vac
- Overheat alarm
- Overload protection
- Output short circuit protection
- Low/over voltage protection

LCD display



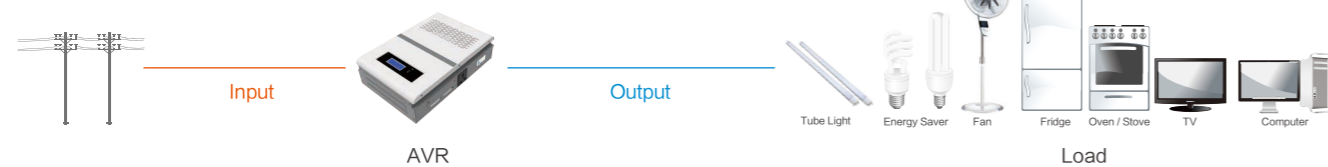
- ① Function description
- ② Indicates input frequency
- ③ Indicates output voltage and delay time
- ④ Indicates normal work mode
- ⑤ Indicates start delay time
- ⑥ Indicates overheat and alarm modes
- ⑦ Indicates the warning and fault modes



- ① LCD display
- ② Delay key
- ③ LED indicator light (Green)
- ④ AC input terminal
- ⑤ AC output terminal
- ⑥ AC output socket
- ⑦ Fuse or circuit breaker

Product overview

Suitable for appliances



Technical Specifications

Model	AVR 1K	AVR 2K	AVR 3K	AVR 5K
Capacity	1000VA	2000VA	3000VA	5000VA

INPUT

Voltage range	100Vac ~ 280Vac
Frequency range	50Hz or 60Hz

OUTPUT

Voltage range	± 10%
Frequency range	50Hz or 60Hz

PROTECTION

Full protection	Overload, Output short, Low/Over voltage
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ALARM

Overheat (Or overload)	Continuous beep
Unusual	Beep every 60 seconds

PHYSICAL

Dimension (D × W × H)	220 × 135 × 86mm	312 × 185 × 85mm	339 × 220 × 97mm
Approximate Net Weight	2.3kg	4.6kg	5.6kg
Humidity	0 ~ 90% RH @ 0 ~ 40° C		
Noise level	Less than 40dB		

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