

# 1 Line Interactive UPS

MICROPOWER SERIES 400 ~ 3000VA 02

MICROSINE SERIES 1000 ~ 2000VA 05

# MICROPOWER SERIES

400 ~ 3000VA



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 sine wave 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(VA/Watts)	400 / 240	600 / 360	800 / 480	1000 / 600	1200 / 720	1500 / 900	2000 / 1200
<b>INPUT</b>							
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)						
<b>OUTPUT</b>							
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						
<b>BATTERY</b>							
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			
<b>INDICATORS</b>							
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						
<b>PROTECTION</b>							
Full Protection	Short circuit, Overload , Overcharge and overdischarge protection						
<b>ALARM</b>							
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						
<b>MANAGEMENT</b>							
Communication port	USB or RS232(Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7, Linux, Unix, and MAC)						
<b>OPERATING ENVIRONMENT</b>							
Humidity	0~90 % RH @ 0~ 40° C (non-condensing)						
Noise Level	Less than 45dB					Less than 55dB	
<b>PHYSICAL</b>							
Approx. Dimension D * W * H (mm)	298*101*142			353*149*162		380*158*198	
Approx. Net Weight (kgs)	Approx. 3.8	Approx. 4.3	Approx. 4.9	Approx. 7.8	Approx. 8.4	Approx. 10.1	Approx. 10.5
Safety	IEC/EN62040-1;IEC/EN60950-1						
EMC	IEC/EN62040-2;IEC61000-4-2;IEC61000-4-3;IEC61000-4-4;IEC61000-4-5;IEC61000-4-6;IEC61000-4-8						
Performance	IEC/EN62040-3						

Specifications are subject to change without prior notice.

## Technical Specifications

MODEL	Micropower 2.4K	Micropower 3K
Capacity(VA/Watts)	2400 / 1440	3000 / 1800
<b>INPUT</b>		
Voltage	220/230/240Vac	
Voltage Range	162~290Vac	
Frequency Range	60/50Hz (auto sensing)	
<b>OUTPUT</b>		
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	
<b>BATTERY</b>		
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	
<b>INDICATORS</b>		
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	
<b>PROTECTION</b>		
Full Protection	Short circuit, Overload , Overcharge and overdischarge protection	
<b>ALARM</b>		
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	
<b>MANAGEMENT</b>		
Communication port	USB or RS232(Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7, Linux, Unix, and MAC)	
<b>OPERATING ENVIRONMENT</b>		
Humidity	0~90 % RH @ 0~ 40° C (non-condensing)	
Noise Level	Less than 55dB	
<b>PHYSICAL</b>		
Approx. Dimension D * W * H (mm)	433*144*207	
Approx. Net Weight (kgs)	Approx. 20	Approx. 23
Safety	IEC/EN62040-1;IEC/EN60950-1	
EMC	IEC/EN62040-2;IEC61000-4-2;IEC61000-4-3;IEC61000-4-5;IEC61000-4-6;IEC61000-4-8	
Performance	IEC/EN62040-3	

Specifications are subject to change without prior notice.

# 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(VA/Watts)	1000 / 700		1500 / 1050	2000 / 1400
<b>INPUT</b>				
Voltage	220/230/240Vac			
Voltage Range	162~290Vac			
Frequency Range	50/60Hz (auto sensing)			
<b>OUTPUT</b>				
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			
<b>BATTERY</b>				
Battery Voltage	24Vdc			
Battery Type & Number	12 V / 7Ah x 2	12 V / 9Ah x 2	12 V / 9Ah x 2	
Typical Recharge Time	6~8 hours recover to 90% capacity			
<b>INDICATORS</b>				
LCD Display	AC Mode, Battery Mode, Load Level, Battery Level, Input Voltage, Output Voltage, Overload, Fault, and Battery Low			
<b>PROTECTION</b>				
Full Protection	Short circuit, Overload , Overcharge and overdischarge protection			
<b>ALARM</b>				
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			
<b>MANAGEMENT</b>				
Communication port	USB or RS232((Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7, Linux, Unix, and MAC))			
<b>OPERATING ENVIRONMENT</b>				
Humidity	0~90 % RH @ 0~ 40° C (non-condensing)			
Noise Level	Less than 45dB	Less than 55dB		
<b>PHYSICAL</b>				
Approx. Dimension D * W * H (mm)	353*149*162	380*158*198		
Approx. Net Weight (kg)	Approx. 8.6	Approx. 11.5	Approx. 12.3	
EMC	IEC/EN62040-2;IEC61000-4-2;IEC61000-4-3;IEC61000-4-4;IEC61000-4-5;IEC61000-4-6;IEC61000-4-8			
Performance	IEC/EN62040-3			

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