FUTURE POWER STORE

KSTAR

Micropower Series

Line Interactive UPS

Micropower Series

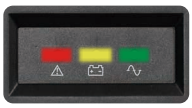
General introduction

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 stablilize 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 featuers 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 andRJ11 /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 × 1	12 V/7Ah × 1	12 V/9 Ah × 1	12 V/7 Ah × 2	12 V/7 Ah × 2	12 V/9 Ah × 2	12 V/9 Ah × 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						
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	
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	
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 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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