

# MUL

## Line-Interactive UPS



### 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
- Optional Generator compatible
- Optional USB/RS232 communication port and RJ11 /RJ45 protection



LED display



MUL-750  
MUL-900



MUL-1500  
MUL-2000



MUL-1200

## Technical Specifications

Model	MUL-750	MUL-900	MUL-1200	MUL-1500	MUL-2000
Capacity	600VA/360W	800VA/480W	1200VA/720W	1500VA/900W	2000VA/1200W
<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/7Ah × 1	12 V/9 Ah × 1	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		
<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)	298 × 101 × 142mm		353 × 149 × 162mm		380 × 158 × 198mm
Approx. Net Weight	Approx. 4.3kg	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				