

On Line UPS (Single Phase 1KVA~3KVA)

P series



Specially for precision instrument and high end computer

100% made in Taiwan, the On Line UPS system is suitable for load of SMT, OA equipment, automatic testing system, computer and related products. In IGBT/PWM advance and module design, the equipment is highly reliable, excellent quality and exceptional long MTBF.

Feature:

- **Very wide input voltage range**
Units of this series have very wide input voltage range, such as 220V system – input 160V-286V and full load for output
- **Input high power factor design-energy conservation and environment friendly**
Input power factor of product of this series are at 0.95 or higher when full load
- **Output true sine wave with low distortion**
- **With RS-232 communication port and SNMP slot**
Can be matched with software monitoring and recording of UPS system status, input voltage, output voltage, frequency, load level, battery level, temp., and setting time of starting and shut down
- **Dual switch on/off design –won't mis-touching**
On/Off design of this series must have both switches pressed for 3 seconds to turn on or off the UPS, and there is no chance of turning off due to careless touching
- **Battery starting function**
At power off of external supply, UPS can start the unit with the internal battery
- **Starting self test and auto-restart when mains recover**
At each starting, micro-processor will test the condition of battery automatically and the panel has battery testing key for testing at any time
- **Battery capacity can be expanded for long time discharge**
Design of this series allows for expanding battery capacity for long time discharge and can match with large current charging board for shorting battery recharge time
- **Output voltage can be adjusted to $\pm 5\%$**
Most of similar unit available in the market are fixed voltage output and when voltage is at high or low side, no fine tuning is allowed
- **50Hz/60Hz auto identification**
UPS has automatic identification of 50Hz or 60Hz of mains and power off output can change automatically to same frequency of mains
- **Intelligent overload protection**
When output overload is within 150%, it will maintain for 1 min. before tripping to bypass, when the overload is more than 150%, it will trip immediately to bypass and it will resume automatically when overload is removed
- **Multiple audio warning function**
When UPS is with situation, in addition to indicating light, there are various types of buzzer warning, such as power off, battery low, overload and failure.....etc.
- **Can be used as frequency converter**
We can accept custom order for products of this series and can be used as frequency converter
- **2-stage cooling fan speed and overheating protection**
This UPS has two thermostats inside – one for controlling rpm of cooling fan, and the other one is for shutting UPS down when the temperature is too high due to failure of fan

✧ Application:



Office IT Equipment



Internet Data Center



Data Back Up System



Data Processing Center



Control Room



Automatic Testing Equipment

In Micro-Processor Control



Setting with micro-processor control element, precise and accurate

Extendable Discharging Time



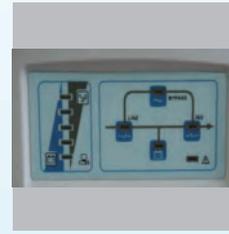
It can expand the battery capacity to extend discharging time and recharging

RS-232 Communication Interface



The RS-232 communication port and SNMP slot offered automatic shutdown with software control

Light Indicator-Clear Indication



With system status and battery and load level indicators that indicate clearly

Dual Switch - Prevent Mis-touching



Designed with pressing both switches to start or stop the UPS to avoid touch by mistake

Model & Specification:

| Model No. | | P-1000 | P-1000R | P-2000 | P-2000R | P-3000 | P-3000R |
|----------------|------------------------------------|--|----------|------------|-----------------------|------------|-------------|
| Capacity | | 1KVA/700W | | 2KVA/1400W | | 3KVA/2100W | |
| Input | Voltage Range | 110V system :80V~143V (100% load), 65V~80V (70% load) 220V system: 160V~286V (100% load),130V~160V (70% load) | | | | | |
| | Frequency | 50Hz or 60Hz±5% (auto adjusting) | | | | | |
| | Power Factor | >0.95 | | | >0.97 | | |
| Battery | DC Voltage | 36VDC | | 96VDC | | | |
| | Type | Maintenance free sealed lead-acid battery | | | | | |
| | Back Up (Full Load) | 7mins | | 8mins | 13mins | 5mins | 7mins |
| | Back Up (Half Load) | 18mins | | 23mins | 32mins | 13mins | 18mins |
| | Recharging Time | 8 hours to 90% | | | | | |
| Output | Voltage | 110V system: 100V,110V,115V,120V 220V system: 200V,220V,230V,240V | | | | | |
| | Frequency | Synchronized (line mode), 50Hz or 60Hz±0.5% (battery mode) | | | | | |
| | Waveform | True sine wave | | | | | |
| | Voltage Regulation | ±2% | | | | | |
| | Distortion | <3%(full linear load) | | | <4%(full linear load) | | |
| | Overload Capability | 108%~150% for 1 min., >150% for 200ms | | | | | |
| Transfer time | Black Out or Power Recovered | 0ms | | | | | |
| | UPS to Bypass or Reversed Transfer | <4ms | | | | | |
| | Overload Disappeared | Become UPS supply automatically | | | | | |
| Noise | At 1 Meter | ≤40db | | | ≤50db | | |
| | LED | Line(green), Inverter(green), Bypass(orange), Fault(red), Load %(5 LEDs), Battery(orange), Battery %(5 LEDs) | | | | | |
| Indicators | Remote LCD panel | Mini detachable LCD panel with 6 feet wire (option) | | | | | |
| Audible Alarm | Battery Mode | Beeping every 4 seconds (reset), and per second when battery low | | | | | |
| | Fault | Beeping continuously | | | | | |
| | Overload | 108%~150% per second, and 150% continuously | | | | | |
| Auto-Restart | | When mains black out and UPS turned off, it will auto-restart after mains recover | | | | | |
| Interface | RS-232(DB9) | UPSlion 2000 monitoring software | | | | | |
| | Options | Novell, AS400, SNMP, Windows NT, UNIX.....etc. | | | | | |
| Other Function | | All operation need to press 2 buttons, with battery function testing and mute button | | | | | |
| Environment | Temperature, Humidity | Temperature: 10°C~45°C Humidity: 20%~90% RH (Non-Condensing) | | | | | |
| Weight | KGS | 14 | 16.4 | 29 | 10.5+28.6 | 29 | 10.5+28.6 |
| Dimension | WxHxD (cm) | 16x24x41 | 44x88x47 | 16x37x47 | (44x9x47)x2 | 16x37x47 | (44x9x47)x2 |