

US9001

ON-LINE FAULT-TOLERANT POWER SUPPLY

The Truly **Modular** Enterprise UPS.



POWERKINETICS™

US9001

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Like a usual UPS (Uninterruptible Power Supply), the US9001 provides backup power during power outage situations to keep a computer system running. What distinguishes the US9001 from others is its completely modular design. The modules in the system run independently of each other to ensure that the system will not stop even when any one of the modules fails. This unique approach makes the US9001 inherently reliable.

The US9001 is not only fault-tolerant in operation but also field upgradable and hot-swappable. It is the only power supply that can meet your present and future needs in mission critical applications.

The capacity can be easily configured just by plugging into the Cabinet the required number of modules in 1 KVA increments to the required capacity.

Hot-swappable and Fault-tolerant

The US9001 system will continue to function even when a module fails or is removed from the Cabinet. The module can be removed while the system is running and can be inserted back into operation without stopping the system. This is the real Hot-Swap! Unlike other UPSs which claim to be reliable, the US9001 can be demonstrated to be reliable.

Field upgradable

The US9001 system has three main components - Power Module, Battery Module and Cabinet. The Power Module comes in a single size of 1 KVA and has built-in batteries to provide backup time that is sufficient for most applications. In situations where backup time needs to be extended, Battery-Modules can be added just by plugging them into any available slots in the Cabinet. Optional External Battery Banks are also available.

Flexible

The Cabinet comes in various sizes to suit different growth requirements; extra slots can be left empty for future needs. When all slots are occupied, the system can be further upgraded by merely replacing the Cabinet with a bigger one, and adding more modules. The Cabinets are available in many different sizes which can go as high as a few hundred slots. Designs of Standard or Rack-mount cabinets are available in single phase or three phase operation.

Easy to install and service

Since the system is built up of many modules, each weighing less than 16kg, it can be easily transported and installed. Servicing and maintenance of the system is made simple too. Indicators on each module will tell if a module is malfunctioning. In case of malfunction, all that the user has to do is to unplug it and send it back to the dealer by courier service.

Standard Cabinet Sizes

| | Slots - 2 | Slots - 4 | Slots - 6 | Slots - 9 |
|----------------------|-------------|-------------|-------------|-------------|
| Maximum Power Rating | 2KVA | 4KVA | 6KVA | 9KVA |
| Dimension (WxHxD) mm | 180x600x560 | 360x600x560 | 360x860x560 | 540x860x560 |
| Weight (kg) | 13 | 23 | 30 | 45 |

Rack-mount Sizes

| Slots-3 | |
|----------------------|-------------|
| Dimension (WxHxD) mm | 483x313x542 |
| Weight (kg) | 19 |
| No. of U | 7 |
| Slots-6 | |
| Dimension (WxHxD) mm | 483x615x542 |
| Weight (kg) | 39 |
| No. of U | 14 |



Specifications for Single Power Module

| | |
|---------------------------------|---|
| Model | US9001PA310E |
| Output Voltage | 230V |
| Output Voltage Regulation | 3% |
| Output Current Variation | 0 to 100% permissible |
| Load Crest Ratio | 3:1 |
| Output Power Factor | 0.6 |
| Output Power Rating | 1000VA |
| Output Overload Capability | 150% for 1 minute |
| Output Frequency | Synchronized, 50HZ 0.1% battery mode |
| Output Waveform | Sinewave |
| Output Voltage Distortion | <5% THD |
| Transfer Time | 0 ms |
| Nominal Input Voltage | 230V |
| Input Voltage Range | 165-275V without using batteries |
| Input Frequency | 50Hz 5% |
| Surge Protection | Per EN50082-1, Meets IEC 801-4 |
| EMI Suppression | EN 55022, CISPR 22B |
| Common Mode Noise Rejection | >60dB |
| Transverse Mode Noise Rejection | >80dB |
| Battery Type | Sealed lead-acid / maintenance free |
| Battery Rating | 12V 7AH |
| No. of Batteries | 3 |
| Backup Time | 5 to 15 minutes* |
| Battery Diagnostics | Automatic self-test |
| System Architecture | On-line Sinewave, Modular, Hot-pluggable |
| System Operation | Automatic, Push-button Control |
| System Diagnostics | Automatic self-test |
| User Interface | 5 LED displays for on, backup, alarm & load level |
| Communications ** | Intelligent Serial Interface RS232 |
| SNMP Capability ** | Via SNMP adaptor |
| Modem Control ** | Via modem adaptor |
| Network Interface ** | Novell, UNIX, OS/400, LAN Manager, etc. |
| Audible Noise | <50dBA |
| Ambient Temperature | 0°C to 40°C |
| Relative Humidity | 0% - 90% without condensation |
| Altitude | Less than 1000m above sea level |
| Size (LxWxH) mm | 499x134x226 |
| Weight (kg) with Battery | 15.8 |
| Weight (kg) without Battery | 8 |



MS ISO 9001:2000 Reg No: AR 0052

Specifications are subject to change without prior notice

* Backup time is for reference only. Actual duration may vary depending on temperature, battery condition and peripherals added.

** Applicable when Power Module(s) is plugged into Cabinet.

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