

## Model # MUT1KL

### 1-Ph, 1KVA/1KW, 220/230/240V, 50H/60Hz Tower Mount On-Line UPS

#### Key Features

- Wide range of input voltage while input PF>99%
- Output PF of 1.0, more powerful load capability
- Wide range of input voltage while input PF>99%
- Full protection of overvoltage, circuit short and over temperature
- Network/fax/modem surge protection
- LCD/LED display, monitoring all the operation status
- 19inch standard cabinet and battery cabinet
- Automatic fan speed adjustment
- Abundant interface: RS232, USB, SNMP, Intelligent Card



#### Product Description

MU1KL is online double-conversion UPS with full DSP control technology. With high input and output power factor, self-adjusting output frequency, smart battery management system and network management, MU1KL is a perfect choice for computers, telecommunication equipment's and other sensitive devices.

#### Applications

- Petrochemical application
- Critical applications where ever higher reliability is needed
- Medical & lifesaving equipment's
- Data centers & computer rooms
- ATM closets/back office support
- Banking & Telecommunication
- Power Generation & distribution stations
- SMB requirements
- Desktops, servers & storage applications

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### Product Specification

| MODEL                               | MUT1KL                                  |
|-------------------------------------|-----------------------------------------|
| INPUT                               |                                         |
| Cold Start                          | YES, default frequency=50Hz or settable |
| Acceptable Input Voltage            | 110VAC~288VAC                           |
|                                     | 100% load@>176VAC                       |
|                                     | 80% load@>154VAC                        |
|                                     | 70% load@>132VAC                        |
|                                     | 50% load@>110VAC                        |
| Phase                               | Single phase in, single phase out       |
| Transfer Voltage Range              | (200VAC/208VAC/220VAC/230VAC/240VAC)    |
| Line low transfer                   | 110VAC                                  |
| Line low recovery                   | 121VAC                                  |
| Line high transfer                  | 288VAC                                  |
| Line high recovery                  | 281VAC                                  |
| Input Current                       |                                         |
| Rating(nominal input voltage)       | 4.8A                                    |
| Input Power Factor                  | ≥0.99                                   |
| Input Frequency Range               | 40~70Hz                                 |
| OUTPUT                              |                                         |
| Frequency adaptable                 | Settable                                |
| Power(kVA) max                      | 1KVA                                    |
| Power(kW) max                       | 1 KW                                    |
| Waveform (Bat. Mode)                | Pure Sine Wave                          |
| Nominal voltage                     | 200/208/220/230/240VAC                  |
| Voltage regulation                  | ± 1 %                                   |
| Transient response                  | ≤5% (0% - 100% -0%)                     |
| Transient recovery                  | ≤30ms (0% - 100% -0%)                   |
| Voltage distortion                  | ≤2% THD, linear load                    |
|                                     | ≤ 5.5% THD, non-linear load             |
| Output Frequency                    |                                         |
| Synchronization range               | ±5Hz default                            |
| Battery mode                        | (50±0.1) Hz default                     |
| Transfer Time                       | 0mS                                     |
| Efficiency                          |                                         |
| Line mode with battery full charged | 86%@100% load, 87%@50% load             |

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|                                   |                                                        |
|-----------------------------------|--------------------------------------------------------|
| ECO mode                          | 94.0%                                                  |
| Battery mode                      | 83%@100% load, 84%@50% load                            |
| Noise(1m away)                    | <43dB@<60%load,<47dB@>60%load                          |
| Overload Capability(Inverter)     | 105%~130%: Transfer to bypass after 1 mins.            |
|                                   | 150%: Transfer to bypass after 30s                     |
| Overload Capability(Battery Mode) | 105%~130%:shutdown after 10s                           |
|                                   | 150%:shutdown after 5s                                 |
| Overload Capability (Bypass Mode) | <130%: Long time                                       |
|                                   | >130%&<150%:Shutdown after 10min                       |
|                                   | >150%&<180%:Shutdown after 5 seconds                   |
| Crest Ratio                       | 3:1                                                    |
| <b>BATTERY</b>                    |                                                        |
| Rating/Type                       | Depend on the capacity of external batteries           |
| Quantity                          |                                                        |
| DC Voltage                        | 36VDC                                                  |
| Back-up Time                      | Depend on the capacity of external batteries           |
| Battery-Low Voltage               | 33VAC~35VDC depending on load                          |
| <b>Charger</b>                    |                                                        |
| Charging voltage                  | float:41VDC/boost:42VDC                                |
| Charging current (max)            | 8A                                                     |
| Charging time                     | Depend on the capacity of external batteries           |
| Leakage current                   | <1mA                                                   |
| <b>INDICATOR &amp; ALARM</b>      |                                                        |
| Display                           | LED+LCD                                                |
| Alarm                             | two short one long                                     |
| Fault                             | Continuous beeping                                     |
| <b>INTERFACE</b>                  |                                                        |
| Smart RS232                       | Standard Cable support MAGNIZON Power Monitor Software |
| SNMP(option)                      | Power Management from SNMP Manager and Web Browser     |
| <b>OPTION</b>                     |                                                        |
| Intelligent Kits                  | DB9 port, dry contact                                  |
| USB                               | B-type USB port                                        |
| SNMP Kits                         | pluggable type                                         |
| <b>MECHANICAL</b>                 |                                                        |
| W×D×H (mm)                        | 144*353*222                                            |
| W×D×H (mm)(shipment)              | 240*448*320                                            |

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|                                      |                                                                                                               |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>Net Weight (KG)</b>               | 6                                                                                                             |
| <b>Package Weight(KG)</b>            | 7                                                                                                             |
| <b>Color</b>                         | Black default                                                                                                 |
| <b>COMMUNICATIONS</b>                |                                                                                                               |
| <b>Communications Interface</b>      | RS232 Serial; Slot for SNMP/Web interface, parallel interface                                                 |
| <b>Network Management Cards</b>      | SNMP-UP2, Dry contacts (optional)                                                                             |
| <b>Software compatibility</b>        | Windows family all versions, Linux, Sun Network OS, IBM Aix, Compaq Tru64<br>SGI IRIX, FreeBSD, HP-UX and MAC |
| <b>UPS monitoring Software</b>       | Supplied along with UPS. Optional SNMP card with web based available on request                               |
| <b>Communications Cable</b>          | RS232 serial                                                                                                  |
| <b>CERTIFICATIONS &amp; WARRANTY</b> |                                                                                                               |
| <b>Conformance</b>                   | CE, EN/IEC 62040-2, EN/IEC 62040-3, ISO 14001, ISO 9001                                                       |
| <b>Standard Warranty</b>             | 2 Years repair or replace                                                                                     |