

## Ultimate-K

**UKT-1K**  
**UKT-2K**  
**UKT-3K**  
**UKT-6K**  
**UKT-10K**

## TRUE ON-LINE DOUBLE CONVERSION UPS

- High input power factor ( $PF \geq 0.99$ )
- Full digital microprocessor control
- Wide input voltage range
- UPS startup without battery
- Cold start
- Advanced battery management
- Automatic battery charging in UPS off mode
- Lightning and surge protection
- Short circuit and overload protection
- LED and LCD display
- USB communication port
- EMI/RFI noise filter
- Emergency Power Off (EPO) function
- Manual maintenance bypass switch (for UKT-6K and UKT-10K)
- N+X parallel redundant configuration upto 4 units (for UKT-6K and UKT-10K) (option)
- SNMP/HTTP capability (option)
- Extend backup time (option)
- UPS monitoring and management software
- Suit for small computer network, servers and other IT equipments



UKT-1K

UKT-2K

UKT-3K

UKT-6K / UKT-10K



MASC1  
ISO 9001 QMS/0198/049  
ISO 14001 EMS/1007/045  
ISO 45001 OHSMS/2002/1105



NSC-TIS-TIS 17021  
QMS/007 / EMS/105 /  
OHSMS 001



TIS 1291 Part 1-2553  
TIS 1291 Part 2-2553  
TIS 1291 Part 3-2555  
LEONICS CO., LTD.

Single Phase True On-line Double Conversion UPS

### SPECIFICATIONS

| MODEL                   |                                                       | UKT-1K                                                                                                                                                                                                                                                 | UKT-2K                                 | UKT-3K                                  | UKT-6K                                        | UKT-10K                         |
|-------------------------|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-----------------------------------------|-----------------------------------------------|---------------------------------|
| CAPACITY                | For computer load                                     | 1 kVA / 1 kW                                                                                                                                                                                                                                           | 2 kVA / 2 kW                           | 3 kVA / 2.7 kW                          | 6 kVA / 5.4 kW<br>(6 kW option)               | 10 kVA / 9 kW<br>(10 kW option) |
| INPUT                   | Voltage                                               | 220 Vac single phase nominal voltage                                                                                                                                                                                                                   |                                        |                                         |                                               |                                 |
|                         | Voltage range                                         | 110 - 300 Vac (depend on load) <sup>(1)</sup>                                                                                                                                                                                                          |                                        |                                         | 110 - 300 Vac (depend on load) <sup>(2)</sup> |                                 |
|                         | Frequency                                             | 40 - 70 Hz                                                                                                                                                                                                                                             |                                        |                                         |                                               |                                 |
|                         | Power factor                                          | ≥ 0.99                                                                                                                                                                                                                                                 |                                        |                                         |                                               |                                 |
| OUTPUT                  | Voltage range                                         | 220 Vac ± 1%                                                                                                                                                                                                                                           |                                        |                                         |                                               |                                 |
|                         | Phase                                                 | single phase                                                                                                                                                                                                                                           |                                        |                                         |                                               |                                 |
|                         | Frequency                                             | 50 Hz ± 0.1%                                                                                                                                                                                                                                           |                                        |                                         |                                               |                                 |
|                         | Wave form                                             | pure sine wave                                                                                                                                                                                                                                         |                                        |                                         |                                               |                                 |
|                         | Harmonic distortion (THDv)                            | ≤ 3% at linear load, ≤ 5% at non-linear load                                                                                                                                                                                                           |                                        |                                         | ≤1% at linear load, ≤3% at non-linear load    |                                 |
|                         | Crest factor ratio                                    | 3 : 1                                                                                                                                                                                                                                                  |                                        |                                         |                                               |                                 |
|                         | Efficiency                                            | 89%                                                                                                                                                                                                                                                    | 90%                                    | 91%                                     | 95%                                           | 95.5%                           |
|                         | Protection                                            | overload, over voltage, under voltage, short circuit proof and battery low voltage shutdown                                                                                                                                                            |                                        |                                         |                                               |                                 |
| TRANSFER TIME           | AC mode and Battery mode                              | Zero time (True on-line UPS)                                                                                                                                                                                                                           |                                        |                                         |                                               |                                 |
| MANUAL CONTROL          | Maintenance bypass switch                             | no                                                                                                                                                                                                                                                     |                                        |                                         | yes                                           |                                 |
| BATTERY                 | Type                                                  | sealed lead acid (maintenance free) (VRLA) rechargeable                                                                                                                                                                                                |                                        |                                         |                                               |                                 |
|                         | Capacity                                              | 12V 9Ah x 3                                                                                                                                                                                                                                            | 12V 9Ah x 6                            |                                         | 12V 9Ah x 20                                  |                                 |
|                         | Backup time                                           | 15 - 30 minutes (depending on computer load)                                                                                                                                                                                                           |                                        |                                         |                                               |                                 |
|                         | Extended backup time                                  | option                                                                                                                                                                                                                                                 |                                        |                                         |                                               |                                 |
|                         | Continuous recharging time                            | 90% capacity after 6-10 hr. charging                                                                                                                                                                                                                   |                                        | 90% capacity after 6 - 8 hours charging |                                               |                                 |
| INDICATOR               | LED                                                   | Inverter, Battery, Bypass, Warning                                                                                                                                                                                                                     |                                        |                                         |                                               |                                 |
|                         | LCD display                                           | Input (voltage / frequency), Output (voltage / frequency), Battery (voltage / current), Load (Watt / VA / %),(Battery (voltage / %), Ambient temperature (Radiator Temperature and Bus voltage only in UKT-6K and UKT-10K), Operation mode, Alarm code |                                        |                                         |                                               |                                 |
| AUDIBLE ALARM           | Buzzer                                                | Mains failure, low battery, overload, UPS fault                                                                                                                                                                                                        |                                        |                                         |                                               |                                 |
| CONNECTION              | Input                                                 | IEC 320 C14 to TIS 166-2549 power cord                                                                                                                                                                                                                 | IEC 320 C20 to TIS 166-2549 power cord |                                         | Terminal blocks                               |                                 |
|                         | Output                                                | 3 Outlets                                                                                                                                                                                                                                              | 6 Outlets and Terminal blocks          |                                         | Terminal blocks                               |                                 |
| COMMUNICATION INTERFACE | USB port                                              | yes                                                                                                                                                                                                                                                    |                                        |                                         |                                               |                                 |
|                         | RS-232 port                                           | yes                                                                                                                                                                                                                                                    |                                        |                                         |                                               |                                 |
|                         | RS-485 port                                           | no                                                                                                                                                                                                                                                     |                                        |                                         | yes                                           |                                 |
|                         | Parallel port                                         | no                                                                                                                                                                                                                                                     |                                        |                                         | yes                                           |                                 |
|                         | SNMP/HTTP capability                                  | option                                                                                                                                                                                                                                                 |                                        |                                         |                                               |                                 |
| SOFTWARE                | UPS monitoring and management software <sup>(3)</sup> | yes                                                                                                                                                                                                                                                    |                                        |                                         |                                               |                                 |
| ACOUSTIC NOISE          | At 1 metre                                            | < 50 dBA                                                                                                                                                                                                                                               |                                        |                                         | < 45 dBA                                      | < 50 dBA                        |
| STANDARD                | Safety                                                | IEC/EN 62040-1, IEC/EN 62477-1                                                                                                                                                                                                                         |                                        |                                         |                                               |                                 |
|                         | EMC                                                   | IEC/EN62040-2 (IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8)                                                                                                                                                     |                                        |                                         |                                               |                                 |
|                         | Performance                                           | IEC/EN 62040-3                                                                                                                                                                                                                                         |                                        |                                         |                                               |                                 |
| ENVIRONMENT             | Operating temperature                                 | 0 - 40°C                                                                                                                                                                                                                                               |                                        |                                         |                                               |                                 |
|                         | Relative humidity                                     | 0 - 95% (non-condensing)                                                                                                                                                                                                                               |                                        |                                         |                                               |                                 |
|                         | Altitude                                              | < 1000 m, 1000 ~ 3000 m derating                                                                                                                                                                                                                       |                                        |                                         |                                               |                                 |
| DIMENSIONS              | W x H x D (mm)                                        | 144 x 209 x 399                                                                                                                                                                                                                                        | 191 x 337 x 460                        |                                         | 191 x 720 x 460                               |                                 |
| WEIGHT                  | Approximate in kg.                                    | 12.5                                                                                                                                                                                                                                                   | 24.5                                   | 24.5                                    | 69.5                                          | 71.0                            |

Continuous product development is our commitment. In that manner, the above specifications may be changed without prior notice.

Input voltage range at full load are <sup>(1)</sup>176 - 300 Vac, <sup>(2)</sup>143 - 300 Vac

<sup>(3)</sup> UPS monitoring and management software capable to work with these OS below.

- Windows 98 / Me / 2000 / 2003 / XP / Vista
- Novell Netware v3.1x / 4.x / 5.x
- Windows 7 / 10 / 11
- Free BSD 4.x
- MS DOS
- Linux

Authorized Distributor

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