

## Ultimate-K

**UKM-1K**  
**UKM-2K**  
**UKM-4000**

## Single Phase True On-line Double Conversion UPS

- Full digital microprocessor control
- Rack/Tower convertible design for saving space
- Wide input voltage range
- High output power factor (Pf = 0.9)
- Cold start function
- ECO mode operation for energy saving
- Emergency Power Off (EPO) function
- Advanced battery management
- Automatic battery charging in UPS off mode
- Lightning and surge protection
- Short circuit and overload protection
- Battery over charge and over discharge protection
- Intelligent fan speed regulation
- Hot swappable battery design
- Extended backup time with external battery pack (option)
- USB and RS-232 communication port with UPS monitoring and management software (free download)
- SNMP/HTTP capability (option)
- Suit for small computer network or server and other IT equipments



Tower stand kit



Rack mount bracket



Mounting rail kit

LCD display indication

- Input (voltage / frequency)
- Output (voltage / frequency)
- Battery (voltage / backup time/ capacity / level in %)
- Load (VA / Watt / level in %)
- UPS operation
- Fault code



UKM-1K



UKM-2K



UKM-4000



MASCI  
ISO 9001 QMS01098/049  
ISO 14001 EMS01007/045  
ISO 45001 OHSMS20027/105



TAS  
NSC-TISI-TIS 17021  
QMS-002 / EMS-005 /  
OHSMS 001



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



Made in Thailand  
MIT6509000373  
UKM-1K



Made in Thailand  
MIT6509000374  
UKM-2K



Made in Thailand  
MIT6509000375  
UKM-4000



## Ultimate-K series : UKM-series True On-Line Double Conversion UPS

### SPECIFICATIONS

MODEL		UKM-1K	UKM-2K	UKM-4000	
CAPACITY	For computer load	1000 VA / 900 W	2000 VA / 1800 W	4000 VA / 2700 W	
INPUT	Voltage	220 Vac single phase nominal voltage			
	Voltage range	176 - 264 Vac			
	Frequency	40 - 70 Hz			
	Power factor	≥ 0.99 at full load			
OUTPUT	Voltage range	220 Vac ± 1%			
	Phase	Single phase			
	Frequency	50 Hz ± 0.1 Hz			
	Power factor	0.9			
	Wave form	pure sine wave			
	Total Harmonic distortion	≤ 3% of THD at linear load, ≤ 5% of THD at non-linear load			
	Overload capability	105%-125% for 1 min. turn to bypass mode, 125%-130% for 30 sec turn to bypass mode, > 130% turn to bypass mode immediately			
	Crest factor ratio	3:1			
	Short circuit protection		Turn off inverter, no transfer to bypass, audible alarm (AC mode)		
			Turn off inverter, audible alarm (Battery mode)		
	Efficiency (AC mode)		89%	91%	92%
	Protection		Overload, over voltage, under voltage, short circuit proof and low battery voltage shutdown		
	TRANSFER TIME	Between AC mode and battery mode	Zero time (True on-line UPS)		
PROTECTION	EMI/RFI attenuation	IEC 62040-2			
	Surge protection	IEC 61000-4-5			
BATTERY	Type	Sealed lead acid (maintenance free) rechargeable			
	Capacity	12 V 9 Ah x 2	12 V 9 Ah x 4	12 V 9 Ah x 6	
	Backup time	10 - 30 minutes (depending on computer load)			
	Extended backup time	option			
	Continuous recharging time	90% capacity after 4 hours charging			
INDICATOR	LED	Inverter mode, Battery mode, Bypass mode, Alarm			
	LCD display	Input (voltage / frequency), Output (voltage / frequency), Battery (voltage / backup time / capacity / level in percentage), Load (VA / Watt / level in percentage), Overload, UPS operation, Environment Temperature, Fault code			
AUDIBLE ALARM	Buzzer	Battery mode, low battery, overload, fault			
CONNECTION	Input	IEC 320 C14 to TIS 166-2549 power cord			
	Output	6 outlets	6 outlets	6 + 1 (high current) outlets	
COMMUNICATION	RS-232 port	only DB-9 port, not included RS-232 cable			
INTERFACE	USB port	an USB port with USB cable			
	SNMP/HTTP capability	option			
SOFTWARE	UPS monitoring and management software <sup>(1)</sup>	yes			
ACOUSTIC NOISE	At 1 metre	< 50 dBA			
ENVIRONMENT	Temperature	0 - 40°C			
	Relative humidity	0 - 95% (non-condensing)			
DIMENSIONS	W x H x D (cm)	44 x 8.65 x 32.5 (2U)	44 x 8.65 x 46 (2U)	44 x 8.65 x 60 (2U)	
WEIGHT	Approximate in kg.	11.9 kg	20.3 kg	27.7 kg	

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

<sup>(1)</sup> IUPS monitoring and management software capable to work with these OS below.

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

Authorized Distributor: