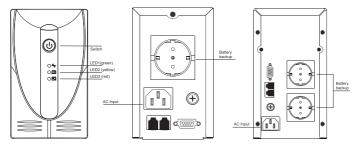
# MAKELS MENUAL UPS USER MANUAL

Army LMAKELS A'N T UPS

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# Front panel and Rear panel



Front panel

Rear panel

Indicator	Buzzer	Situation
LED 1 (green) illuminates	No sound	Mains normal, mains supply the load
LED 2 (yellow) illuminates	No sound	Mains normal, battery charging
LED 3 (red) illuminates	Beep every 2 second	Mains abnormal, battery supply the load
LED 3 (red) illuminates	Beep every 1 second	Mains abnormal, battery low
LED 3 (red) illuminates	Beep continuously	Battery exhausted, UPS will protect itself and switch off
No LED illuminate	No sound	UPS shutdown

### **Installation Procedure**

Connect the serial cable to the UPS and computer serial port.

Connect the AC plug of UPS into an AC source.

Kindly charge UPS battery for 12 hours when plugged into AC source for first time. Turn ON the AC source and switch ON the UPS ON/OFF switch

## Operation

#### 3.1.1 Start-up, mains available

Press switch, LED '1' (green) would be continuously on.

Then the equipment connected to the UPS can be switched on.

#### 3.1.2 Start-up, mains not available

If the mains input is absent (power cord not connected, or mains failure):

Press switch, LED '3' (red) would illuminates.

The UPS would be on battery mode and discharge the batteries.

#### 3.1.2 Switch off

Press switch

## **SPECIFICATIONS**

Ratings

Voltage Amperes (VA),: 650VA 800VA 1000VA/1400VA 2000VA

with computer type load

Watts (W): 360 480 600 / 840 1200

with resistive load

Input

AC input voltage window: 165-275V Input frequency (typical): 50 Hz

Input frequency range: nominal ± 10 %

Output

AC output voltage (typical): 220 V AC output voltage tolerance: nominal±10%

Output frequency: 100mmai=

Output frequency stability: <0.5Hz (batterymode)

Output waveform: step sine wave

Power factor: 0.6

Transfer time: typical 4ms

Batteries (ratings given for 25℃)

Nominal voltage (Vdc):

Number x capacity (Ah) of batteries: 1x7 1x9 2x7 2x9

Type: 12V, sealed lead acid, maintenance free

Service life: 3-5 years (depending on use)

Battery recharge time for 90%

capacity (hours, approximation): 8

Autonomy: runtime in minutes

at full load : ≥3.5

General

Net/gross weight (kg): 6/6.5 7/7.5 13.3/14 Dimensions (hxwxd, mm): 140x85x340 140x85x340 140x85x340

Enclosure / protection: steel-plastic /lp20

**Environment** 

Safety: EN 50091-1-1
Electromagnetic compatibility: EN 50091-2
Ambient temperature: -10 to +40°C;
Sound at 1 meter: <45 dB(A)

Maximum relative humidity: 95% (non-condensing)