

Upper Arm Electronic **Blood Pressure Monitor**

Model:U80EH



Instruction Manual

Table of Contents Introduction · · · · · · · · 03 Product structure ·----- 08 -Each part Name ·---- 08 Battery Installation · · · · · · · · 09 Setting mode · · · · · · · 11 -How to set ------ 11 Proper use of the unit · · · · · · · 13 -Pre-measurement ·----- 13 -Common factors of wrong Measurement · - - - 13 -Fitting the cuff ·---- 14 -Measuring procedure ·---- 15 -Discontinuing a Measurement ·---- 15 -Memory-recall of measurements ------ 15 Reading memory record ------ 16 Memory -clear of measurements ------ 16 About blood pressure ------16 Exceptional situations ------18 Care and maintenance ------ 19 Specifications ------ 20 Warranty information ·---- 21 EMC Declaration ------22

02/25

▲ Your new digital blood pressure monitor uses the oscillometric

method of blood pressure measurement. This means the monitor

detects your blood's movement through your brachial artery and

monitor does not need a stethoscope, so the monitor is simple to

▲ Intelligent inflation will reduce the uncomfortable feeling by

incorrect inflation, and shorten the measurement time, prolong the

▲ 2x90 sets memory function, each measurement result will be

Please read the manual carefully before you use the unit, and

This product can't be used in patients who is with severe heart

The automatic blood pressure monitor intended to measurement the

systolic pressure, diastolic pressure and pulse rate through upper

arm. They are expect used into the home and hospital, intended for

03/25

classification index, could easy to check your blood pressure

displayed on the screen, and automatically stored. This unit has blood

converts the movements into a digital Reading. An oscillometric

Introduction

cuff's usage lifetime

keep the manual well after using

over than 12 years old adult using.

insufficiency to avoid suffocation and death.

This product is not suitable for infants and children.

CONTRAINDICATION

INTENDED USE

⚠ Those who have arrhythmia, diabetes, blood circulation or

cover and on may cause the suffocation.

Safety Information

Safety Information

associated with the device and its use.

★ Type BF applied part

Manufacturer

=== Direct current

Follow instructions for use

To assure the correct use of the product, basic safety measures should always be

followed including the warning and the caution listed in the instruction manual

The following symbols may appear in this manual, on the label, on the device, or

on it's accessories. Some of the symbols represent standards and compliances

serious personal injury or death

minor personal injury, product damage, or

SN Specifies serial number

MARNING: This alert identifies hazards that may cause

A CAUTION: This alert identifies hazards that may cause

property damage

EC REP Authorized Representative in the European Community

Medical Device Directive 93/42/EEC.

municipal waste. Collection of such waste separately

(€ ₀₂₂ CE Mark: conforms to essential requirements of the

DISPOSAL: Do not dispose this product as unsorted

for special treatment is necessary.

⚠ CAUTION: Consult accompanying documents

apoplexy problem, please use under the physician's instruction. ▲ Contact your physician for specific information about your blood pressure. Self diagnosis and treatment which use measured results may be dangerous. Follow the instructions of your physician or licensed healthcare provider. ▲ Please place on a high place where children can't be touched. ▲ No modification of this equipment is allowed ▲ Do not modify this equipment without authorization of the ▲ If this equipment is modified,appropriate inspection and testing must be conducted to ensure continued safe use of equipment. ⚠ The cuff hose around neck may cause the suffocation.

04/25

⚠ Please don't use a dilution agent,alcohol or petrol to clean the unit.Please don't hit heavily or fall down the product from a high place. Use the right cuff, otherwise it can not work. ⚠ Never leave any low battery in the battery compartment since

⚠ The swallowing of samll park like packing bag,battery,battery

they may leak and cause damage to the unit. ⚠ Please take off the battery if you won't use in 3 months. ⚠ Replace the new batteries if the unit display a low battery symbol.

⚠ Do not mix the old and new batteries. ⚠ Do not use a cellular phone near the unit.It may result in

⚠ Please avoid using in high radiant area in order to make your measuring data correctly

05/25

⚠ Consecutive blood pressure measurements should be repeated after 1 minute pause or after the arm has been held up in order to allow the accumulated blood to flow away.

⚠ If the arm circumference size is beyond the measuring range of CUFF, it can't be measured and used, then it will cause the blood flowing unsmooth and wrong measurement data.

pressure may continuously increase which can prevent blood flow and result in harmful injury to the PATIENT.

△ Too frequent measurements can cause injury to the PATIENT due

△ Don't apply CUFF over a wound, it can cause further injury to the

women, patients with implanted, electronical devices, patients with pre-eclampsia, premature ventricular beats, atrial fibrillation, peripheral, arterial disease and patients undergoing intravascular therapy or arterio-venous shunt or people who received a mastectomy. Please consult your doctor prior to using the unit if you suffer from ilnesses.

situation which may interrupt blood flow and influence blood circulation of the patient, thus cause harmful injury to the patient: connection tubing kinking too frequent :the application of the cuff and its pressurization on any arm where intravascular access or therapy, or an arterio-venous (A-V) shunt, is present; inflating the cuff on the side of a mastectomy.

Safety Information

♠ Do not use the equipment where flammable gas(such as anesthetic gas, oxygen or hydrogen) or flammable liquid (such as

↑ Do not touch the output of AC adapter and the patient simultaneously

⚠ Do not touch the live end of battery and the patient simultaneously when change the batteries

▲ WARNING:

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facillities. Contact you local government for information regarding the collection systems available. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being

Classification

- 1. Internally powered equipment;
- 2. Type BF applied part;

Product structure

Body

Air socket

Display

- 3. Protection against ingress of water or Particulate matter: IP21; 4. Not category AP / APG equipment;
- 5. Mode of operation: Continuous operation.

The user must check that the equipment functions safely and see that it is in proper working condition before being used

07/25

Battery installation

Adapter usage(option)

1. When optional AC adapter should comply with the requirement of IEC 60601-1:2005. Furthermore all configurations shall comply with the requirements for medical electrical systems(see IEC 60601-1-1 or clause 16 of the 3Ed.of IEC 60601-1, respective-ly). Anybody connecting additional equipment to medical electrical equipment configures a medical system and is therefore responsible that the system complies with the requirements for medical electrical systems. Attention is drawn to the fact that local laws take priority over the above mentioned requirements. If in doubt, consult your local representative or the technical service

2. This device is double insulated and protected against short circuit and overload by a primary thermal fuse. Make sure to take the batteries out of the compartment before using the mains part. Equipment class 2. 3. When using AC power, to avoid possible damage to the monitor, use only the exclusive AC adapter that can be purchased from authorized dealers. 4.Insert the adapter plug into the hole on the backside of the unit as

5. Insert the other side of the adapter into the outlet with 100-240V. 6.To remove the AC adapter, disconnect the adapter plug from the outlet first and then disconnect the cord from the unit's socket.

Adapter technical features:

Output voltage:6V±5%

Output current:At least 600 mA Output plug polarity: <+> inner

External diameter: 5. 5mm 0.1 mm Internal diameter: 2.1 mm 0.1 mm

10/25

Setting mode

·When use AC adapter, the power of battery won't be consumed. ·When suddenly stop during measurement(like the plug off from the outlet by carelessness), it must be reinserted the plug into the unit, and restart the measurement.

HOW TO SET

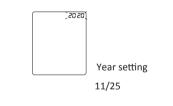
1.user setting

Press button SET when power off, the screen will display norm , press button MEM, it will be changed between and and press button SET when you confirm the user, then it will enter into the year setting mode



2.Year setting

Continue to above step, the screen will display and flash 20XX, the last digit of the year will increase 1 when press button MEM each time, you could choose from 2020 to 2099. Press button SET when you confirm the year, then it will enter into the month and date setting mode



Proper use of the unit

the accumulated blood to flow away.

·Only use clinically approved cuffs!

can lead to false reading.

Proper use of the unit

minutes before taking a measurement.

pressure changes even during the day.

Common factors of wrong measurement

·Relax for about five to ten minutes prior to the measurement Avoid

·Take measurement regularly at the same time of every day, as blood

·All efforts by the patient to support their arm can increase blood

·If the arm artery lies lower or higher than the heart, a false reading

·With repeated measurements.blood accumulates in the arm which

Consecutive blood pressure measurements should be repeated after

13/25

1 minute pause or after the arm has been held up in order to allow

·Make sure you are in a comfortable, relax position and do not

activate any of the muscles in the measurement arm during

measurement. Use a cushion for support if necessary.

·A loose cuff or a exposed bladder causes false reading.

eating, drinking alcohol, smoking, exercising and bathing for 30

All these factors will influence the measurement result.

·Always measure on the same arm(normally left)

·Remove any garment that fits closely to your upper arm.

Measurement

Pre-measurement

will be obtained.

Fitting the CUFF

1). Put the cuff on a table flatly with the velcro side down. Pass the end of the cuff through the metal loop so that a circle is formed. The velcro closer will now be facing outwards(ignore this step if the cuff has already been prepared).

2). Push the cuff over the left upper arm so that the tube points in the direction of the lower arm.

- 3). Wrap the cuff on the arm as illustrated. Make certain that the lower edge of the cuff lies approximately 2 to 3 cm above the elbow and the rubber tube leaves the cuff on the inner side of the arm.
- 4). Tighten the free end of the cuff and close the cuff by affixing the velcro.
- 5). The cuff should be snug on your upper arm so That you can fit 2 fingers between the cuff and your upper arm. Any piece of clothing restricts the arm which must be taken off.
- 6). Secure the cuff with the velcro closer in such a way that it lies comfortably and not too tight.Lay your arm on a table(palm upwards)so that the cuff is at the same height as the heart. Do not bend the tube

If it is not possible to fit the cuff to your left arm, it can also be placed on the right. However, all measurements should be made using the same arm

Measuring procedure: After the cuff has been appropriately positioned, the measurement

can begin: 1). Press the START/STOP button, all symbols appear on the display, then the pump begins to inflate the cuff,

the rising pressure in the cuff is shown on the display. 2). After the suitable pressure has been reached, the pump stops and the pressure gradually falls. The cuff pressure is displayed. In case that the inflation is not sufficient, the device automatically re-inflates to a

3). When the device detects the signal, the heart symbol 🎔 on the display starts to flash.

4). When the measurement has been completed, the systolic, diastolic and pulse rate will appear on the

5). The measurement readings remain on the display

until you switch off the device. If no button is pressed for a period of 3 minutes, the device switches off itself in order to save the power.

Note: The symbol $\sqrt{\ }$ will be displayed along with the reading if the irregular heartbeat is detected during the measurement.

Discontinuing a measurement

reason(eg.the patient feels unwell)the START/STOP button can be pressed at any time. The device immediately decrease the cuff

measurements value, the oldest record will be replaced by the latest

15/25

Safety Information

⚠ Don't kink the connection tube during use, otherwise the cuff

to blood flow interference.

The device is not suitable for use on neonatal patients, pregnant

⚠ When using this device, please pay attention to the following ⚠ Do not inflate the cuff on the same limb which other monitoring

ME equipment is applied around simultaneously, because this could cause temporary loss of function of those. ⚠ Please check that operation of the device does not result in

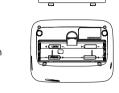
prolonged impairment of patient blood circulation.

Battery installation

Cuff size and connection

Battery installation

compartment insert the battery. a)Remove the battery cover as picture b)Insert 4 AA powerful batteries into the



Low battery and replacement

the proper direction.

unit can' t work.

Battery type and replacement Please use 4pcs AA identical 1. 5V alkaline batteries.

Do not use the batteries beyond their expiry date.

WARNING Dispose of the battery in accordance with all federal, state and

local laws. To avoid fire and explosion hazard, do not burn or incinerate the battery.

Setting mode

3. Month and date setting Continue to above step,the screen will display xxMxxD and xxxx, and

keep flashing on month, the digit will increase 1 when press button MEM each time, you could choose from 1to 12. Press button SET when you confirm the month, then it will set the date. Same as the month setting, each time you press button MEM, the digit will keep changing from 01 to 31. Press button SET when you confirm the date, then it will enter into the time setting mode.



Continue to above step, the screen will display xxMxxD and xx:xx, and

keep flashing on the digits of hour, the digit will increase 1 when press button MEM each time, you could choose from 0 to 23. Press button SET when you confirm the hour, then the digits of minute start to flash, same as the hour setting, each time you press button MEM the digits will keep changing from 00 to 59. Press button SET when you confirm the minute, then the total setting mode is completed. IMO IO 0:00

Hour setting Minute setting

1"D 1" D;DD,

This blood pressure monitor automatically stores 2×90 sets measurement value when more than 90 sets each user.

Year/Month/Date/Time

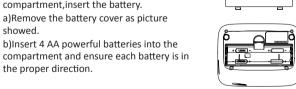
Irregular heart beat

Start/Stop button

The accessories cuff is M size, for upper-arm circumference 22-32cm use. The cuff is treated as the applied part. Insert the connector with cuff tube into the hole which is on the left side of the device as picture. (Only provided cuff can be used, can not change to any other branded cuff.)

08/25

Remove the battery cover from the battery



Please remove the batteries if you do not need to use for long time.

09/25

12/25

14/25 Proper use of the unit

150

6 10M 180 8:00

1 18

If it is necessary to interrupt a blood pressure measurement for any

pressure automatically. Memory-recall of measurements

About blood pressure

Read memory record

Press the button MEM when power off, the latest 3 times average value will be shown, press the button MEM again, the last measurement value will be shown, as well as subsequent measurements can be display one after the other by pressing the button MEM each



Memory -clear of measurements

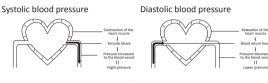
If you are sure that you want to permanently remove all stored memories. Press the button SET for 7 times until CL appears when power off, press the START/STOP button, CL will flash for 3 times to clear all the memories. After this press button MEM, M and "no" will be shown on the display which mean that no memory in store.

About blood pressure

Blood pressure is the pressure exerted the arteries.

The systolic blood pressure value represents the blood pressure produced by contraction of the heart muscle. The diastolic blood pressure value represents the blood pressure

produced by relaxation of the heart muscle.



16/25

Care and maintenance

Care for the main unit and blood pressure monitor cuff

- Keep the unit in the storage case when no use. Clean the unit with soft dry cloth.
- Do not use any abrasive or volatile cleaners. Never immerse the unit or any component in
- Make sure the monitor is off prior to cleaning a mixture of distilled water and 10 percent bleach could be used.
- Using a spray bottle, moisten a soft cloth towel with the bleach or detergent mix until i
- Wipe all surfaces of the blood pressure monitor cuff thoroughly, making sure to clear the inside and outside of the cuff. Be cautious not to get any moisture in the main unit Using a dry cloth, gently wipe away any excess moisture that may remain on the bloo ressure cuff. Lay the cuff flat in an unrolled position and allow the cuff to air dry.



Maintenace

potential oversaturation of the cuff.

water.

| ohtha, thinner or gasoline etc. | cuff with water. |
|--|------------------|
| The state of the s | |

Store the unit in a clean and dry location.Do not subject the unit to extreme hot or cold temperature, humidity and direct sunlight.

Remove the batteries if the unit will not be



₩ We won' t be responsible for any quality problem if you don't care and maintain the product as

19/25

EMC Declaration

IEC 60601-1-2: 2014 ME EQUIPMENT and ME SYSTEMS identification, marking and documents for Class B product

Instructions for use

The ME EQUIPMENT or ME SYSTEM is suitable for home healthcare environments and so on.

 $\textbf{Warning:} \ \mathsf{Don't} \ \mathsf{near} \ \mathsf{active} \ \mathsf{HF} \ \mathsf{surgical} \ \mathsf{equipment} \ \mathsf{and} \ \mathsf{the} \ \mathsf{RF} \ \mathsf{shielded} \ \mathsf{room} \ \mathsf{of}$ an ME system for magnetic resonance imaging, where the intensity of $\ensuremath{\mathsf{EM}}$ Warning: Use of this equipment adjacent to or stacked with other equipment

should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.

Warning: Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased $% \left(1\right) =\left(1\right) \left(1\right$ electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation."

Warning: Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 $\,$ inches) to any part of the blood pressure monitor, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

If any: A list of all cables and maximum lengths of cables (if applicable), transducers and other ACCESSORIES that are replaceable by the RESPONSIBLE ORGANIZATION and that are likely to affect compliance of the ME EQUIPMENT or ME SYSTEM with the requirements of Clause 7 (EMISSIONS) and Clause 8 (IMMUNITY). ACCESSORIES may be specified either generically (e.g. shielded cable, load impedance) or specifically (e.g. by MANUFACTURER and EQUIPMENT OR TYPE REFERENCE).

If any: The performance of the ME EQUIPMENT or ME SYSTEM that was determined to be ESSENTIAL PERFORMANCE and a description of what the OPERATOR can expect if the ESSENTIAL PERFORMANCE is lost or degraded due to EM DISTURBANCES (the defined term "ESSENTIAL PERFORMANCE" need not be used).

22/25

EMC Declaration

1970

2450

5500

Guidance and manufacturer's declaration - electromagnetic Immunity 18 Hz GSM 800/90 TETRA 800 iDEN 820, CDMA 850 LTE Band 5 18 Hz 930 1720 1700 - 1990 1845

modulation 217 Hz

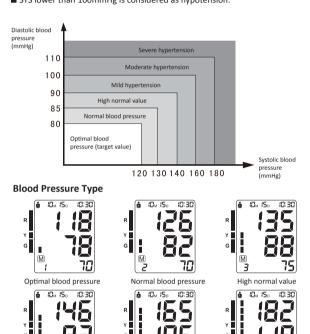
Pulse nodulation 217 Hz

0.3

25/25

About blood pressure

■ According to the blood pressure classification by the WHO/ISH. ■ SYS lower than 100mmHg is considered as hypotension.



17/25

Specification

| Description | Automatic upper a | rm blood pressure monitor | |
|------------------------|--|------------------------------|--|
| Display | Automatic upper arm blood pressure monitor | | |
| Measuring principle | Oscillometric meth | LCD digital display | |
| | | | |
| Measuring localization | Opper arm | Upper arm | |
| Measurement | Pressure | 0~299mmHg | |
| range | Pulse | 40~199 pulses/min | |
| Accuracy | Pressure | ±3mmHg | |
| | Pulse | ±5% of reading | |
| LCD indication | Pressure | 3 digits display of mmHg | |
| | Pulse | 3 digits display | |
| | symbol | Memory/Heartbeat/Low battery | |
| Memory function | 2x90 sets memory of measurement values | | |
| Power source | 4pcs AA alkaline battery DC.6V or AC adapter | | |
| Automatic power off | in 3 minutes | | |
| Main unit weight | Approx.219g(batteries not included) | | |
| Main unit size | 132mm×100mm×45mm | | |
| Main unit lifetime | 10,000 times under normal use | | |
| Battery life | Could be used for 300 times for normal condition | | |
| Accessories | Cuff, instruction manual | | |
| Operating environment | Temperature | 5°C~40°C | |
| | Humidity | 15%~93%RH | |
| | Air pressure | 86kPa~106kPa | |
| Storage | Air pressure:86kPa~106kPa; | | |

20/25

Temperature:-20°C~55°C; Humidity:10%~93%RH; avoid crash, sun burn or rain during transpor

EMC Declaration

Technical description

1.All necessary instructions for maintaining BASIC SAFETY and ESSENTIAL PERFORMANCE with regard to electromagnetic disturbances for the excepted

2.Guidance and manufacturer's declaration -electromagnetic emissions and Immunity

Tabe 1

| Emissions test | Compliance |
|---|------------|
| RF emissions CISPR 11 | Group 1 |
| RF emissions CISPR 11 | Class B |
| Harmonic emissions IEC 61000-3-2 | Class A |
| Voltage fluctuations/ flicker emissions IEC 61000-3-3 | Compliance |

23/25

Manufacturer Shenzhen Urion Technology Co., Ltd. Shenzhen Urion Technology Co., Ltd. Shenzhen Urion Technology Industrial Zone, Mo. 3, Chuang-Wei Road, Heshuikou Community, MaTian Street, GuangMing New District, 518106 ShenZhen, PEOPLE'S REPUBLIC OF CHINA Tel: (86)-755-29231308 E-mail:urion@urion.com.cn MADE IN CHINA

Eurepresentative Shanghai International Holding Corp. GmbH (Europe) Eiffestrasse 80, 20537 Hamburg, Germany Tel:+49-40-2513175 E-mail:shholding@hotmail.com

Software version: UA1.0 Expected service life: 5 year

ECREP Eu representative



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Exceptional Situation

Error indicators

The following symbol will appear on the display when measuring abnormal.

| Symbol | Cause | Correction | |
|---|-------------------------|--|--|
| Weak signal or pressure change suddenly | | Wrap the cuff properly. | |
| | | Remeasure with correct way. | |
| F-2 | External strong | When near cell phone or other high radiant device the measurement will be failed. | |
| | disturbance | Keep quite and no chatting when measure. | |
| It appears error | | Wrap the cuff properly. | |
| E-3 | during the process of | Make sure that the air plug is properly inserted in the unit. | |
| inflating | | Remeasure. | |
| E-5 | Abnormal blood pressure | Repeat the measurement after relax for 30 mins,if get unusual readings for 3 times,please contact your doctor. | |
| | low battery | Replace all the worn batteries with new ones. | |

Trouble removal

| Problem | Check | Cause and solutions | |
|---|-----------------------------------|---|--|
| No power | Check the battery power | Replace new one | |
| | Check the polarity position | Installation for proper placement of the batteries polarities | |
| No inflation | Whether the plug insert | Insert into the air socket tightly | |
| No iiiiatioii | Whether the plug broken or leak | Change a new cuff | |
| Err and stop working | Whether move the arm when inflate | Keep the body peaceful | |
| | Check if chatting when measured | Keep quite when measure | |
| Cuff leak | Whether the cuff wrap too loose | Wrap the cuff tightly | |
| Cull leak | Whether the cuff broken | Change a new cuff | |
| A Please contact the distributor if you can't solve the problem, do not disassemble the unit by yourself! | | | |
| | 18/25 | | |

Warranty information

Statement

- The intended use: the unit is intended to be used by adults at home or
- $\operatorname{medical}$ center to measure blood pressure and pulse rate from the wrist. ■ The unit satisfies the requirements of EN ISO 81060-1 Part 1 Noninvasive sphygmomanometers, EN 1060-3:1997+ A2:2009 Non-invasive sphygmomanometers. IEC80601-2-30 Part 2 Non-invasive sphygmomanometers.
- Blood pressure measurements determined with this device are equivalent to those obtained by a trained observer using
- The cuff stethoscope auscultatory method, within the limits prescribed by the American National Standard,manual,electronic, or automated sphygmomanometers.
- The risk of patient and user can be lowered to acceptable level.

Warranty Information

- The unit is guaranteed to be free of defects in workmanship and materials under normal use for a period of Two Years from the date listed on the purchase record.
- For repair under this warranty. Our authorized service agent must be advised of the fault with the period of the warranty. This warranty covers parts and labor only under normal operations. Any defect resulting from natural causes, eg. flood, hurricane etc, is not within this guarantee. This guaranty does not cover damage incurred By use of the unit not in accordance with the instructions, accidental damage,or being tampered with or serviced by $% \left(\frac{1}{2}\right) =\left(\frac{1}{2}\right) \left(\frac$ unauthorized service agents. ■ Monitor subjected to misuse, abuse, and neglect of these manual
- content,non-instructional purposes;unauthorized repair or modifications will be excluded from this warranty. The device requires no calibration.
- ⚠ The device is not repairable and contains no user serviceable parts. 21/25

EMC Declaration

Tabe 2

| Immunity Test | IEC 60601-1-2 Test level | Compliance level |
|--|--|--|
| Electrostatic discharge (ESD) IEC 61000-4-2 | ±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air | ±8 kV contactv ±2 kV, ±4 kV, ±8 kV, ±15 kV air |
| Electrical fast transient/burst IEC 61000-4-4 | Power supply lines: ±2 kV 100 kHz repetition frequency | Power supply lines: ±2 kV 100 kHz repetition frequen |
| Surge IEC 61000-4-5 | line(s) to line(s): ±0.5kV ±1 kV | line(s) to line(s): ±0.5kV ±1 kV |
| Voltage dips, short interruptions and voltage variations on power supply input lines | 0% 0.5 cycle At 0°, 45 °, 90 °, 135 °, 180 °, 225 °, 270 ° and 315 ° 0% 1 cycle And 70% 25/30 cycles Single phase: at 0% 300 cycle | 0% 0.5 cycle At 0°, 45 °, 90 °, 135 °, 180 °, 225 °, 270 ° and 315 ° 0% 1 cycle And 70% 25/30 cycles Single phase: at 0% 300 cycle |
| Power frequency magnetic field IEC 61000-4-8 | 30 A/m 50Hz/60Hz | 30 A/m 50Hz/60Hz |
| Conduced RF IEC61000-4-6 | 150KHz to 80MHz: 3Vrms 6Vrms (in ISM and amateur radio bands) 80% Am at 1kHz | 150KHz to 80MHz: 3Vrms 6Vrms (in ISM and amate radio bands) 80% Am at 1kHz |
| Radiated RF IEC61000-4-3 | 10 V/m 80 MHz – 2,7 GHz 80 % AM at 1 kHz | 10 V/m 80 MHz – 2,7 GHz 80 % AM at 1 kHz |

24/25