

User Manual

IMETEO 800

WiFi-connected weather station with temperature, pressure and weather trend function, equipped with an outdoor sensor and color screen.



TechniSat

Notes on recycling



This device has been designed and manufactured with high-quality materials and components that are recyclable. The symbol of the crossed-out wheeled waste container indicates that the product is subject to separate collection in accordance with the Directive

European Parliament and the Council 2012/19/EU and in accordance with the Directive of the European Parliament and the Council 2006/66/EC and informs that electrical and electronic equipment and batteries and accumulators after the period of use, must not be discarded together with

With other household waste. The user is obliged to return it to a collector of waste electrical and electronic equipment and batteries and accumulators forming a system for the collection of such waste, including a suitable store, local collection point or municipal unit. Waste equipment can have a harmful effect on the environment and human health due to the potential content of hazardous substances, mixtures and components. The household plays an important role in contributing to the reuse and recovery, including recycling, of waste equipment. At this stage, attitudes are formed that influence the behavior of the common good, which is a clean environment. Households are also one of the largest users of small equipment, and rational management of this equipment affects the recovery of recyclable materials. In case of improper disposal of this product, penalties may be imposed in accordance with national legislation.

The packaging of your device consists only of recyclable materials.



Important note on disposal of batteries/accumulators: Batteries/accumulators may contain toxic substances that are harmful to the environment. Therefore, it is necessary to dispose of batteries/accumulators in accordance with applicable laws. Never dispose of batteries/batteries in regular household waste. Dispose of used batteries/accumulators free of charge at a specialized dealer or at special disposal facilities. (Batteries are not included).

1 Introduction

Security

- Please read carefully before using the device user manual.
- Please follow the instructions.
- Please do not use the device if it has fallen into water.
- Please use only a dry cloth for cleaning.
- All repairs should be carried out by an authorized service center.
- The device is not a toy. Children do not recognize the dangers of using electrical appliances. Keep the device out of the reach of children and pets.
- Do not crush, throw or shake the device.
- Do not use any heat sources near the station and sensors, which may also heat them up.



NOTE

- Please do not remove the housing on your own.
- Do not lubricate / grease the device.
- Do not place the device on top of other electrical appliances.
- The base station is designed for indoor use.
- Operate the device only with the recommended mains voltage. Never attempt to operate the device at any other voltage.
- If the device shows signs of damage, do not run it.
- Do not run the device near bathtubs, showers, swimming pools or running/splashing water. There is a risk of electric shock and/or damage to the device.
- Foreign objects, such as nails, coins, etc., must not fall inside the device. Do not touch the connection contacts with metal objects or fingers. This can lead to short circuits.
- This device is not intended for use by persons (including children) with limited physical, sensory or mental or lacking experience and/or knowledge, unless they are supervised or instructed by a person responsible for their safety in the use of the device.
- Modifications to the device are prohibited.
- Before connecting, make sure that the operating voltage of the AC adapter is compatible with the mains voltage.
- When the device is not in use (and connected using the power supply),

Remove the plug from the socket. Pull the plug, not the cord. Remove the plug before the storm begins. If the device will not be used for a long period of time, such as before going on a long trip,

Remove the plug from the outlet. The heat generated during operation must be dissipated by proper air circulation. Therefore

The device must not be covered or installed in a closed enclosure. A free space of at least 10 cm must be provided around the device.

- Regularly check the power cord for damage and do not use it if it is damaged.
- When unplugging the power supply from an electrical outlet, pull the plug, not the cord.
- The device can only be operated in temperate climates.



WARNING

Do not touch the mains plug of the power supply with wet hands; danger!



WARNING

The power supply cable should be routed in such a way that no one can trip over it.



Electrical voltage!



There is a possibility of electric shock.

Never open the device or AC adapter!

In the following cases, unplug the device from the mains and ask a specialist for help:

- The power cord or power plug is damaged,
- The device has been exposed to moisture or liquid has entered it,
- In case of major accidents,
- In case of serious external damage.



Danger of suffocation! Packaging and its parts should not be left with children. Risk of suffocation due to foil and other packaging materials.

1.1 Characters and symbols used

In this manual:



Indicates a safety instruction that, if not followed, can cause serious injury or death. Observe the following signal words:

DANGER - Serious injury resulting in death.

WARNING - Severe personal injury that can lead to death.

NOTE - Injuries.



It indicates the caution to be observed to avoid device malfunctions, data loss/misuse or unintended operation. It also describes further functions of the device.



Warning of electrical voltage. Follow all safety instructions to avoid electric shock. Never open the power supply.

On the device:



Indoor use - devices marked with this symbol are suitable for indoor use only.



Your device is CE marked and meets all required EU standards.



This appliance has been designed and manufactured with high-quality materials and components that are suitable for post-new use. The symbol of the crossed-out wheeled waste container indicates that the product is subject to separate collection in accordance with Directive 2012/19/EU of the European Parliament and of the Council and in accordance with Directive 2006/66/EC of the European Parliament and of the Council, and informs that electrical and electronic equipment and batteries and accumulators, after their useful life, must not be disposed of with other household waste.



The power supply of the device meets the requirements of energy efficiency class VI.

- This symbol indicates the polarity of the DC voltage on the DC plug of the power supply.

2 Features of the device

- Date and time updated via internet connection.
- Display of the days of the week in 15 languages: Polish, English, German, Italian, French, Spanish, Dutch, Danish, Portuguese, Norwegian, Swedish, Finnish, Czech, Hungarian and Slovak.
- Alarm and snooze function (4 alarms).
- Relative humidity: indoor and outdoor indication range: 1%RH ~ 99%RH.
- Record minimum / maximum temperature and humidity outside and inside.

Temperature:

- The range of indicated internal temperature measurement:
 - 10°C~ 50°C,
- The range of the indicated measurement of the outdoor temperature:
 - 40°C~ 70°C,

- Choice of temperature unit °C or °F.

Wireless external sensor:

- wall-mountable,
- 3 variable channels (one sensor),
- transmission frequency: 433.92MHz RF, 10dBm power,
- Transmission range in open space: up to 60 meters.

Barometer:

- Pressure value updated from the Internet,
- Selection of pressure unit hPa/mB, inHg or

mmHg, Wind speed and direction:

- Wind speed and direction updated from the Internet,
- Wind speed alternatively in km/h or Mph.

PM2.5 air quality, AQI and UVI:

- PM2.5 and AQI updated from the Internet,
- Alternatively, the PM2.5 value reported in µg/m3,
- UVI updated from the Internet.

Weather forecast:

- Weather and temperature forecast function for the next 4 days delivered from the Internet.

Power supply:

- Weather station:

Batteries: 2 x 1.5V LR03 AAA (*not included) or power adapter (DC 5V/1200mA)

- External sensor:

Battery: 2 x 1.5 V LR06 AA (*not included).

















3 View of the device

Base station



LCD screen

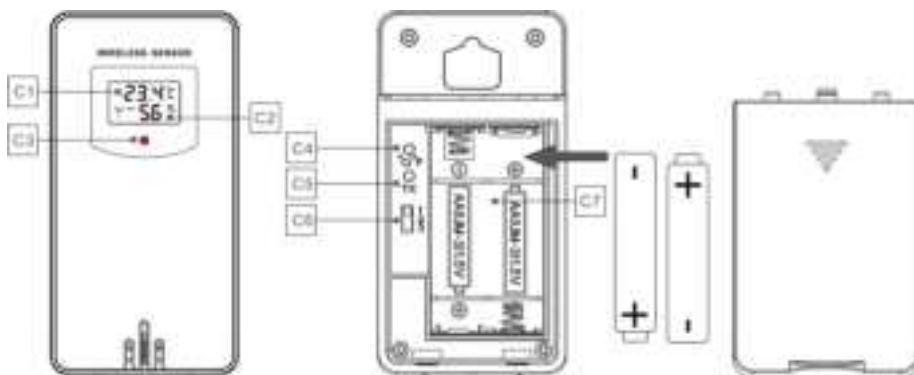
- | | |
|--|----------------------------------|
| A1: Calendar | A2: Sunrise time |
| A3: Phase of the moon | A4: Time |
| A5: Day of the week | A6: Sunset time |
| A7: Temperature inside | A8: Humidity inside |
| A9: Outdoor sensor channel | A10: Outdoor temperature |
| A11: Outdoor humidity | A12: PM2.5 |
| A13: Sensible temperature | A14: AQI |
| A15: UVI | A16: Wind speed |
| A17: Wind direction | A18: Atmospheric pressure |
| A19: Predicted maximum temperature today and in the next 1-4 days. | A20: Forecast for today |
| A21: Predicted minimum temperature today and over the next 1-4 days | |
| A22: Weather forecast for the next +1 day | |
| A23: Weather forecast for the next +2 day | |
| A24: Weather forecast for the next +4 day | |
| A25: Weather forecast for the next +3 day | |

-  WIFI signal strength indicator
-  Low battery level
-  Icon of time downloaded from the network
-  Automatic backlight
-  Alarm icon 1
-  Alarm icon 2
-  Alarm icon 3
-  Alarm icon 4
-  Alarm clock repeat: icons from Monday to Friday Alarm
-  Alarm clock repeat: icons from Saturday to Sunday
-  Snooze icon
-  Icon inside
- MAX: Display the maximum temperature and humidity recording icon
- MIN: Display the minimum temperature and humidity recording icon
-  Temperature| humidity trend arrow up
- Temperature |
-  humidity trend arrow down
-  Wireless reception icon
-  Wireless channel loop icon

Buttons and the back of the device

- B1:**  "touch button
- B3:** Support
- B5:**  " button
- B7:**  " button
- B9:**  " button
- B11:** Power connector
- B2:** Photosensitive sensor
- B4:**  button
- B6:**  " button
- B8:**  " button
- B10:** Battery cover
- B12:** Support

External sensor



- C1:** Temperature
- C2:** Humidity
- C3:** LED indicator light
- C4:** Unit selection °C /°F
- C5:** Manual transmission with transmitter
- C6:** Channel switch CH1, CH2, CH3
- C7:** Battery compartment



Tip

- The weather station supports up to 3 channels of wireless sensors.

- The default wireless channel displayed by the weather station is channel 1. If the wireless sensor is set to channel 2 or 3, you must press the "↺" button on the right side of the weather station to switch to channel 2 or 3, and then check the temperature and humidity to confirm whether the signal has been successfully received.

4 First configuration of the device

- Remove the weather station and sensors from their packaging and place them together on a table or bench, within easy reach.
- Place the batteries within reach of the installation site.
- Keep the sensors and weather station 0.15-0.3 meters or 5-10 feet away for at least 15 minutes after installing the batteries to allow the sensors and station to connect.

4.1 Installation of the Tuya application

Depending on your cell phone brand, search for the Tuya app in the iOS App store or Google Play store, find the app and download it. At the same time, register an account, open the app, log in to your account and at the same time log in to the hotspot the weather station needs to connect to in order to prepare for device pairing.



Tuya app icon.



4.2 Quick setup

- Pair the weather station with WiFi. Check the WiFi pairing instructions (Section 4.3) for details.
- Configure basic settings, set time/date format and units, etc.
- Insert 2 AAA batteries into the weather station (when the power supply is unexpectedly turned off, the settings will not be lost).
- After 15 minutes, move the remote sensor outside or to another location.

4.3 Pairing with WiFi

- When the weather station starts up, it will automatically enter pairing mode and the WiFi icon "📶" will start flashing.

Step 1

- Open the Tuya application, click the "⊕" icon in the upper right corner of the screen and select **Add Device**. The device detection interface will appear automatically, click **Add**.



Step 2

- Then connect the stations to your home WiFi network. Select the correct WiFi network and enter the password. Proceed to the next step by clicking on "Next."



Step 3

- The device will start connecting to the local WiFi network. At this time, please do not disconnect both the station and the router from the mains.



Step 4


- The device has been correctly added to the network. This is indicated by a green acceptance icon next to the device picture. In addition, the application displays information "Added ."




Step 5

- The pairing has been completed. At this point, the weather station should be visible along with the parameters on the Tuya app screen.





 If the device does not automatically enter pairing mode when you first turn it on, you can press and hold the "📶" button for more than 3 seconds to enter pairing mode manually. The messages in the Tuya app will be the same as when the device automatically enters pairing mode.

 Once the pairing is complete, the weather station will automatically connect to the WLAN, automatically update the time and start searching for signals from remote wireless sensors. The "📶" icon will flash for about 3 minutes.







5 External sensor


- The main unit can support up to 3 wireless sensors. It is important that the sensors operate on different channels (three channels are available: CH1, CH2 and CH3).
- Pressing the "📶" button can switch the display of temperature and humidity from different channels.
- If the main unit cannot receive the transmission from the external sensor (the LCD display shows "--"). Press and hold the "📶" button for 3 seconds to manually receive the transmission. The outdoor temperature display will show a flashing antenna icon
RF, and the base station will again receive the wireless signal from the external sensor.

 If there is no sensor signal transmission on the channel, the base station will display "--". Note that the channel of the sensor and the weather station should be compatible.

 One sensor is included in the kit. Additional sensors are available as an option.


6 Time and unit settings


- Press and hold the " " button for 3 seconds to enter the time setting mode.
- Press the " " or " " button to adjust the value. Hold down the " " or " " button to quickly adjust the value.
- Press " " to confirm and move to the next item.

 The settings are exited after 20 seconds without pressing any button.


Order of settings

1. Temperature unit: °C| °F
2. Pressure unit: hPa| inHg| mmHg
3. Wind speed unit: km/h| mph| m/s| knots
4. Hourly format: 24Hr| 12Hr
5. Hour
6. Minutes
7. Calendar display format: Month/Date| Date/Month
8. Year
9. Month
10. Date
11. Language of the week display: a total of 15 countries

 There are 15 weekday languages available: English, German, French, Spanish, Italian, Dutch, Danish, Portuguese, Norwegian, Swedish, Polish, Finnish, Czech, Hungarian and Slovak.

 Once the product is connected to a WiFi network, there is no need to set the time, the time will be automatically updated by the Internet, and the user only needs to set the format to be displayed.

6.2 Settings in the application

When the weather station is paired and connected to WIFI, the weather station time will be automatically calibrated. Click the settings icon " " on the main screen of the application to access the settings interface, and then click the corresponding menu bar to set the device.





7 Setting alarms

There are three sets of daily alarm clocks and two setting methods. To set an alarm clock, use the weather station button or click the alarm clock settings item in the Tuya app interface.

7.1 Setting with the buttons

- Briefly press the "🔔" button to display the alarm times AL1 | AL2 | AL3 | AL4. Briefly press the "🔔" button to turn the selected alarm on or off.
- While viewing alarms, press and hold the "🔔" button for more than 3 seconds to enter the time setting mode of the selected alarm.
- Press the "⏰" or "⏰" to adjust the alarm time. Hold down the "⏰" or "⏰" to quickly change the values.
- Press "🔔" to confirm and move to the next item.

 When the AL1| AL2| AL3| AL4 function is enabled, the alarm icon is displayed "🔔". At the same time, the corresponding alarm repeat icon "MA" | "TU" | "WE" | "TH" | "FR" | "SA" | "SU" is displayed.


 "MA" | "TU" | "WE" | "TH" | "FR" | "SA" | "SU" indicates that the alarm will be triggered on Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday.


Wait 20 seconds without pressing any buttons to exit the display modes.

The order in which settings are made:

1. Time of alert.
2. Alert minutes.
3. Alarm repeatability.

4. Snooze: 5 to 60 minutes or snooze off.

 The repeat setting can be selected from "MO (MON), TU (WT), WE (WEDN), TH (CZW), FR (Fri)" or SA (SOB), SU (NO) or all options.

 time setting range: 5~ 60MIN, OFF when set to OFF, means no snooze function. The unit of snooze time is minutes.

72 Setup using the app

Click the settings icon "⚙️" on the main screen of the application to access the settings interface, and then click "Alarm Settings" on the menu bar to access the lower settings menu.

Main interface



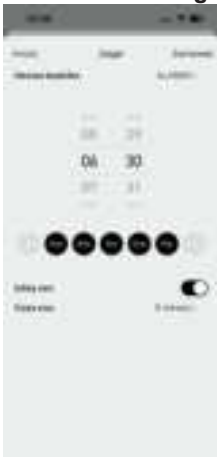
Settings






Alarm settings





Alarm time settings





 The weekly recurrence in the app can be set independently for each day.

-  The alarm will sound for 2 minutes if it is not turned off by pressing any button. In this case, the alarm will be automatically repeated after 24 hours.
-  The rising alarm sound (duration: 2 minutes) changes in volume 4 times while the alarm signal is heard.

7.3 Turning off the alarm sound

- Pressing any button except the touch button " / ZZ " will turn off the alarm. The snooze will not be activated.
- Pressing the touch button " / ZZ " will turn off the alarm and **activate the snooze**.






7.4 Nap

- When the alarm time expires, touch and release the touch button " / ZZ ", the alarm signal will turn off and go into snooze mode. After the snooze time expires, the alarm will restart (snooze can be repeated).
- To disable the snooze, hold down the touch button " / ZZ " for more than 3 seconds.

-  During active snooze, the alarm icon blinks.

8 Temperature and humidity

8.1 Maximum and minimum value

- To toggle maximum, minimum temperature and indoor/outdoor humidity data, press the " " button:
One time to display maximum indoor/outdoor temperature and humidity values. Double-click to display minimum indoor/outdoor temperature and humidity values.
Three times to return to the current indoor/outdoor temperature and humidity levels.
- To reset the maximum and minimum room temperature and humidity, display the min or maximum value and press and hold the " " button for about 2 seconds. This will reset all recorded minimum and maximum data to the currently displayed values, including outdoor temperature records.
-  After the reset, the above values will first be displayed as "--" and then the current values will be saved again.
- A trend measurement is available for temperature and humidity:
 : The detected value is increasing.
 : The detected value decreases.
No trend icon displayed: the detected value remains unchanged.

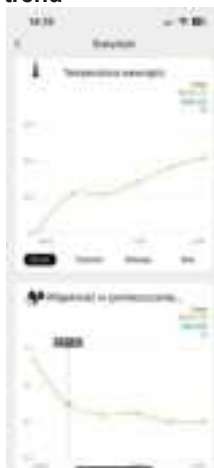
8.2 Trend of temperature and humidity measurement in the application

You can use the app to view historical temperature and humidity changes and display them on a graph. Click the "📊" icon on the app's home screen to enter and view the graph of daily, weekly, monthly and yearly changes.

Main interface



Daily, weekly, monthly and annual trend



9 Sensible temperature, pressure, PM 2.5, AQI, UV index

Data such as sensible temperature, air pressure, PM2.5, AQI and UV index come from the web and are real-time, automatically updated hourly from the internet.

10 Low battery indicator

If the battery icon "🔋" appears in the column "📶", replace the base station battery.
If the battery icon "🔋" appears in the column "📶", replace the battery of the external sensor.

11 Backlight adjustment

11.1 Backlight adjustment with buttons

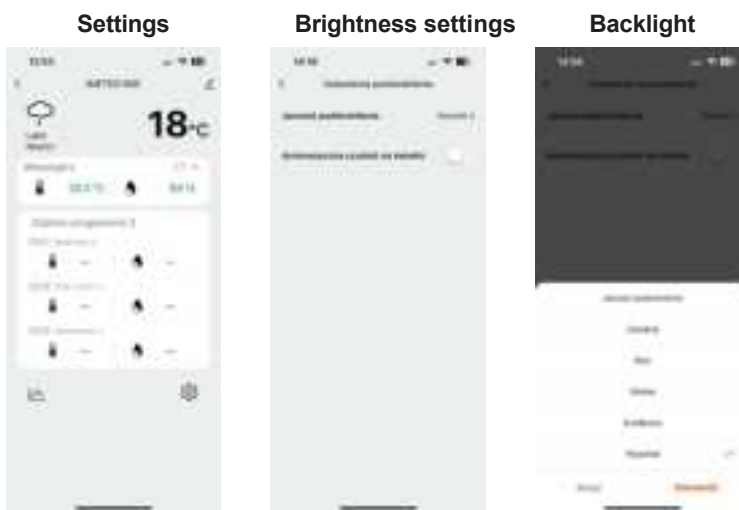
- If the device is powered by batteries, tap "🔋/🔌".
The backlight will turn on for a duration of 15 seconds.
- When the power adapter is connected, the battery will be automatically disconnected and the backlight will always be on. Press the "🔌" button to
Adjust the brightness of the backlight. You can set 5 states: 4 levels of backlight brightness and backlight off. When the backlight brightness is not set to the maximum value, tap the

☀️ / 22 " to turn on the backlight with maximum brightness for 15 seconds.

- When operating on the power supply, you can enable the automatic screen brightness mode. Touch "☀️ / 22 " and hold for more than 3 seconds, and the main unit will enter auto brightness mode, the light detection icon "☀️ " will be displayed, and the backlight of the main unit will automatically adjust its brightness according to the ambient light. The dimmer the ambient light, the dimmer the backlight.
- Pressing and holding the "☀️ / 22 " button again for 3 seconds will turn off the auto backlight mode.






























11.2 Backlight adjustment through the app

Click the settings icon "⚙️" on the main screen of the application to access the settings interface, and then click "Backlight Settings" on the menu bar to access the lower settings menu.



12 Weather forecast function

- When the weather station is connected to the Internet, the weather station automatically downloads the weather forecast for the current day and the next four days from the network.
- The weather station automatically transmits indoor/outdoor temperature/humidity data to the server, and the application can automatically download data from the server via the network.
- Weather forecast icons that can be displayed:

Sunny	Mostly sunny	Partly cloudy	Mostly cloudy	Clouds	Irregular rain
					
Mainly rain	Heavy rain	Thunderstorm with heavy rain	Partly drizzle	Drizzle	Heavy drizzle
					
Thunderstorm	Storm	Intense storm	with us and snow	Powdery snow	Snow
					
Heavy snow	Light snow	Snowbird	Rain with snow	Rain and hail	Grad
					
Fog	Light fog	Dust in the air	Sand blowing	Sandstorm	
					



The main interface displays the predicted maximum and minimum temperatures for a given day (default for the current day). If you want to display data for the other 4 days, press the "🗓️" button.

13 Manufacturer

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55-120 Oborniki Śląskie, Poland
biuro@technisat.pl
+48 71 310 4000

14 Service tips and warranty

This product is quality tested and has a statutory warranty period of 24 months from the date of purchase. Please keep the invoice as proof of purchase. For warranty claims, please contact the seller of the product or the manufacturer. In case of warranty claims, the cost of shipping directly to the manufacturer will be paid by the customer.

In case of questions and information, or if you have a problem with this device, our technical hotline is available: Monday. - to Friday, from 8:00 am to 4:00 pm at +71 310 41 48.

The guarantor, within the scope of the guarantee, undertakes to remove at its own expense any defects in the product. Removal of defects will be carried out by replacing the defective product with a new, defect-free one or repairing it.

In order to exercise the warranty, the purchaser must report the defective product to the point of sale where the product was purchased and deliver the defective product there. The product should be delivered complete.

The warranty does not cover product defects caused by the purchaser or resulting from:

- Using or installing the product in a manner inconsistent with the instructions for ,
- Improper storage or maintenance of the device,
- repairs or alterations of the product performed by unauthorized persons,
- ingress of fluids or foreign bodies,
- lightning and power line surges.

The provisions of the warranty do not exclude, limit or suspend the rights of purchasers (consumers) under generally applicable laws.

Obtaining detailed information about the product, including the rules and procedures of warranty proceedings, assigning an RMA number, is possible by phone 71 310 41 48 or by e-mail serwis@technisat.com , on working days, from 8 a.m. to 4 p.m.

Service requests ONLINE: www.serwis.technisat.com

15 Legal information

TechniSat hereby declares that the IMETEO 800 radio device complies with Directive 2014/53/EU and RoHS. The full text of the EU declaration of conformity is available at <http://konf.tsat.de/?ID=25321>



16 Technical data

17.1 Technical data of the weather station

Temperature measurement range	Internal sensor: -10°C~ 50°C External sensor: - 40°C~ 70°C
Humidity measurement range	20%RH~ 95%RH
Pressure measurement range	600~1100 hPa/mB
WLAN	WiFi IEEE 802.11 b/g/n 2412-2471 MHz, max. 15.35 dBm
Wireless outdoor sensor	3 variable channels Transmission frequency: 433.92MHz Power: 10dBm Transmission range: up to 60 meters Maximum number of sensors: 3 (1 included)
Supported languages	Polish, English, German, Italian, French, Spanish, Dutch and Danish.
Power supply	Weather station: 2 x 1.5 V LR03 AAA(*not included) or power adapter (DC 5V/1.2A) External sensor: 2 x LR06 AA (*not included)
Dimensions	173 x 140 x 27 mm
Weight	306g

17.2 Technical specifications of the power supply

Power supply manufacturer	DONGGUAN SHIJIE HUAXU ELECTRONICS FACTORY, East Road, Shijie Town, Dongguan City, China
Model	HX075-0501200-AG001
Input voltage	100-240V~, 50/60Hz, 0.3A max.
Output voltage	5V AC
Output current	1,2 A
Output power	6 W
Average efficiency in operation mode (min)	77.63 % (@230V/50Hz)
No-load power consumption	0.068 W (@230V/50Hz).