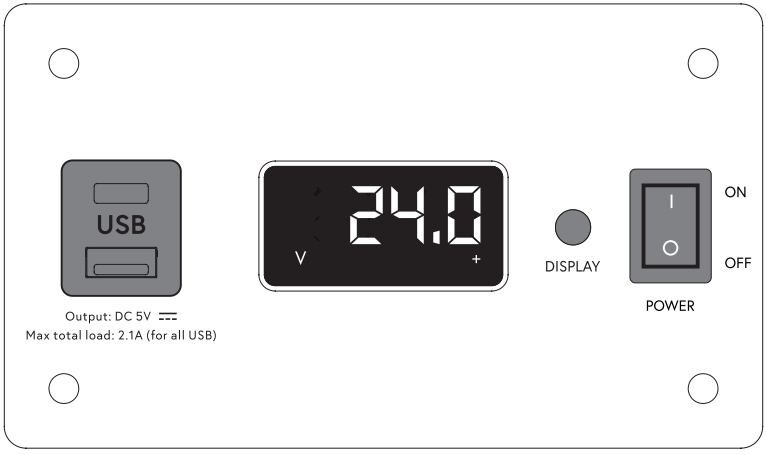
TAGA HARMONY

LPS-100 [230-240V]

LINEAR POWER SUPPLY
FOR USE WITH AUDIO-VIDEO EQUIPMENT



Instruction Manual

Edition 09-2025

Introduction

Thank you for purchasing this TAGA Harmony power filter.

LPS-100 power filter combines 4 functions in one device: power noise filtering; linear Power Supply with selectable output DC voltage for various devices; two USB ports powered by the built-in linear Power Supply to use for powering and charging; and surge and overload protection.

LINEAR POWER SUPPLY FOR DC AND USB OUTPUTS

Most DC-powered electronics use simple, affordable external power adapters equipped with switch-mode power supplies.
These adapters operate at high switching frequencies, which can generate various types of electrical noise.
This noise can not only affect the connected device but also inject unwanted interference back into your electricity network, impacting other equipment.
Such noise can dramatically degrade the performance.

The solution lies in using a high-quality linear power supply, like the one found in our LPS-100 Power Supply.
The LPS-100 linear Power Supply provides a very significant and immediate upgrade to the performance of your DC-powered devices.

2-LEVEL NOISE FILTERING

The electricity network in our homes and workplaces is constantly exposed to various interferences.
For instance, electromagnetic interference (EMI) is generated by everyday appliances connected to the same network, like refrigerators, air conditioners, and computers.

These interferences aren't just limited to your home or office; they can originate from any appliance within your building or even outside it. Their intensity can also vary depending on the time of day or week as the traffic on the electrical network changes. All these interferences, which we call „noises," can infiltrate your AC power and disrupt your system.
This „dirty" electricity can significantly impact the performance of your audio-video system.

The LPS-100 offers a robust 2-level filtering system to combat these issues:
I tier for 230-240V : this initial stage features a built-in isolating 100W toroidal power transformer, capable of delivering up to 3A (72W) at 24V DC.
II tier for DC Voltage : the final stage incorporates specially-designed filtering, applied separately to both the DC output and USB ports.

This comprehensive filtering system is an excellent way to limit negative noises from your electricity and effectively isolate your audio-video system from contaminated power.

Furthermore, contaminated electricity can negatively affect the internal circuits and power supplies of your equipment. Because the LPS-100 acts as a buffer between the wall socket and your gear, it helps to increase the longevity of the connected components.

SURGE AND OVERLOAD PROTECTION

The LPS-100 linear Power Supply provides surge and overload protection.

I tier : this level involves an external and internal fuse that safeguards against current surges and overloads directly on the 230V/240V power input.
II tier : 3-level protection for the DC output and USB ports :
the system uses the built-in isolating power transformer -> step-down switching regulator -> short-circuit and thermal overload circuit specially designed for the DC output and USB ports.

Introduction

DC Output Protection against External Devices Malfunction
Protection against overvoltage and short circuits from the connected devices.

DIGITAL DISPLAY (for DC output)
It indicates the real-time DC output data, including the voltage (V), current (in mA or A), power (W), and selected polarity. It can also be turned off if needed.

Cleaning
Do not use strong or abrasive cleaners. Use a damp, soft cloth for cleaning.

Specifications and the latest instruction manual edition
Full technical specifications and the latest edition of the instruction manual are available on **www.TagaHarmony.com**.

Contents

Safety Instructions

IMPORTANT

READ THIS SECTION CAREFULLY BEFORE PROCEEDING!

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The triangle containing a lightning symbol is intended to alert the user to the presence of uninsulated dangerous voltages within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

An exclamation mark in a triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE, AND OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHOULD NOT BE PLACED ON THIS APPARATUS.

CAUTION: TO PREVENT ELECTRIC SHOCK, FULLY AND SECURELY INSERT THE POWER CABLE PLUG INTO THE POWER OUTLET, AND POWER CABLE CONNECTOR INTO THE UNIT SOCKET (IF THIS UNIT IS NOT EQUIPPED WITH AN INTEGRATED [ATTACHED] POWER CORD).

CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE THE FUSE (IF THE UNIT IS EQUIPPED WITH A USER REPLACEABLE FUSE) ONLY WITH THE SAME AMPERAGE AND VOLTAGE TYPE. IN CASE WHEN THE UNIT IS NOT EQUIPPED WITH A USER REPLACEABLE FUSE - REFER REPLACEMENT TO QUALIFIED SERVICE PERSONNEL.

WARNING: THE UNIT MAY BECOME HOT. ALWAYS PROVIDE ADEQUATE VENTILATION TO ALLOW FOR COOLING. DO NOT PLACE THE UNIT NEAR A HEAT SOURCE, OR IN SPACES THAT CAN RESTRICT VENTILATION.

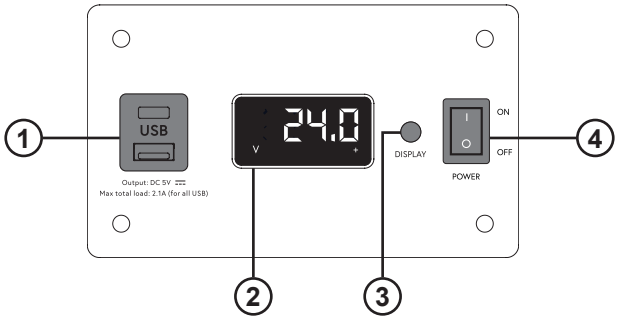
Safety Instructions

1. Read Instructions - All the safety and operating instructions should be read before the product is operated.
2. Retain Instructions - The safety and operating instructions should be retained for future reference.
3. Heed Warnings - All warnings on the product and in the operating instructions should be adhered to.
4. Follow Instructions - All operating and use instructions should be followed.
5. Cleaning - Unplug this product from the power outlet before cleaning. Do not use liquid cleaners or aerosol cleaners.
6. Water and Moisture - Do not use this product near water - for example, near a bath tub, wash bowl, kitchen sink or laundry tub; in a wet basement; or near a swimming pool; and the like. These precautions also apply to the power cord.
7. Accessories - Do not place this product on an unstable cart, stand, tripod, bracket or table. The product may fall, causing serious injury to a child or adult and serious damage to the product. Use only with a cart, stand, tripod, bracket or table recommended by the manufacturer or sold with the product. Any mounting of the product should follow manufacturer's instructions and should use a mounting accessory recommended by the manufacturer.
8. Ventilation - This unit may be equipped with slots and openings in the cabinet (housing) which are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should be not placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to. For products equipped with a separate power supply unit, leave at least 5cm (2in.) of free space on all sides and the top of the power supply.
9. Power Sources - This product should be operated only from the type of power source indicated on the marking label (placed on the product and/or, if applicable, on a separate power supply unit). If you are not sure of the type of power supply in your home, consult your product dealer or local power company. For products intended to operate from battery power or other sources, refer to the operating instructions.
10. Grounding and Polarity - some units for proper operation or to take full advantage of their capabilities may require to be connected to a grounded power outlet – refer to the user manual for more information.
    Some units may have markings for the live (L) and neutral (N) conductors for power - in order to take full advantage of capabilities of such products, it is recommended to properly connect the polarity according to the markings on the unit - refer to the user manual for more information. Connecting the polarity not in accordance with the markings will not affect the durability and reliability of the device.
11. Power-cord Protection - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles and the point where they exit from the product.
12. Lighting - For added protection for this product during a lighting storm or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or system cables. This will prevent damage to the product due to lighting and power-line surges.
13. Overloading - Do not overload wall outlets, extension cords or integral convenience receptacles as this can result in a risk of fire or electric shock.
14. Object and Liquid Entry - Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Do not expose this apparatus to dripping or splashing and ensure that no objects filled with water, such as vases are placed on the apparatus.
15. Servicing - Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
16. Damage Requiring Service - Unplug this product from wall outlet and refer servicing to qualified personnel under the following conditions:
    - when power supply cord or plug is damaged;
    - if liquid has been spilled or objects have fallen into the product;
    - if the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will require extensive work by a qualified technician to restore the product to its normal operation;
    - if the product has been dropped or damaged in any way;
    - if the product exhibits a distinct change in performance - this indicates a need for a service.
17. Replacement Parts - when replacement parts are required, be sure the technician has used replacement parts specified by the manufacturer or with the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
18. Safety Check - Upon completion of any service or repairs to this product, ask the service technician to perform safety check to determine that the products is in proper operating condition.
19. Wall of ceiling mounting - The product should be mounted to a wall or ceiling only as recommended by the manufacturer.
20. Heat - The product should be situated away from heat sources such as radiators, heat registers, stoves or other products (including amplifiers) that produce heat.
21. [Refers to products equipped with vacuum tubes] Tube Cage or cover - For your safety and to protect the vacuum tubes this product may be equipped with the factory installed vacuum tube cage or cover.
    It is not recommended to remove the cage or cover unless it is required to change the vacuum tubes.
    When the cage or cover is removed - do not touch the vacuum tubes - they may be hot and burn the skin!
22. Operating Environment - Operating environment temperature and humidity of the unit: +5°C to +35°C (+41°F to +95°F); less than 85% RH (cooling slots not blocked).

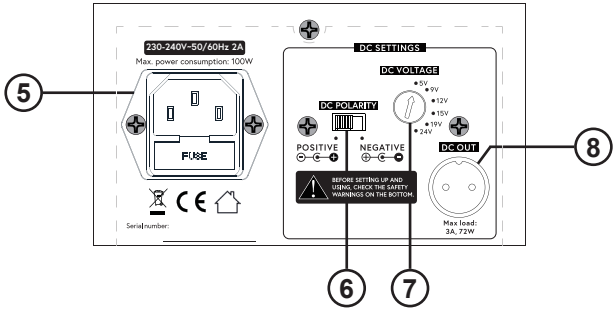
PACKAGING WARNING
The packaging may contain elements such as plastic, that **should be kept away from small children**.
The thin foil or small elements can stick to the nose and mouth, or may be swallowed and prevent breathing.

Controls and Displays

FRONT



REAR

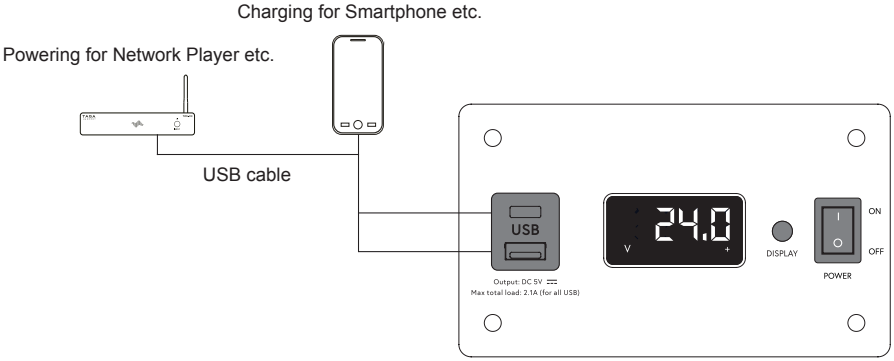


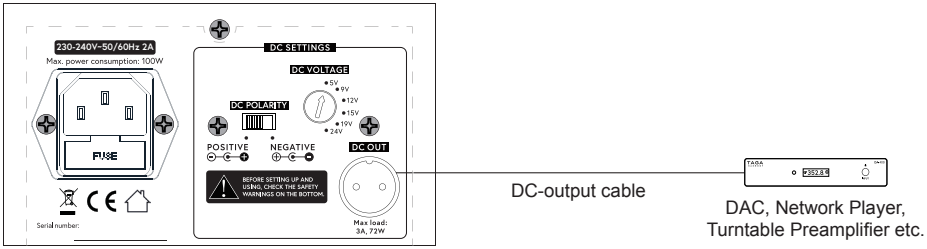
1. USB-C and USB-A Ports
2. Digital Display – DC Output:
   Voltage (V) / Current (mA or A) / Watts (W) / Polarity (- or +)
3. Digital Display Button
4. Power Switch [ON (I) and OFF (0)]
5. Power Cable Input and Fuse Box with Mains Fuse

The blown fuse should be only exchanged for the same type as indicated on the rear panel of the device and the specifications. The Power Cable should be disconnected!

6. DC Polarity Selector
7. DC Voltage Selector
8. DC Output Socket

Hooking Up the Power Supply





1. Make sure the Power Supply is turned off (the Power Switch is in the down OFF position and the Power Cable is removed from the wall outlet).

Total maximum power load (wattage rating): the total maximum power consumption for all connected devices to DC Output Socket and USB ports of the Power Supply should not exceed the maximum power load for this device.
The total maximum power load for this Power Supply is given in Kilowatts (kW) or Watts (W) and is printed on the device at the Power Cable Input.
It is also available in the specifications on **www.TagaHarmony.com**.

TAGA Harmony is not liable for misuse of the Power Supply.

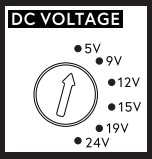
Hooking Up the Power Supply

CONNECTING DC POWERED DEVICES

Maximum power load for the DC Output: the maximum power consumption for the connected DC powered device to the Power Supply should not exceed the maximum power load for the DC Output.
The maximum power load for the DC Output is given in Kilowatts (kW) or Watts (W) and is printed on the Power Supply at the DC Output Socket.
It is also available in the specifications on **www.TagaHarmony.com.**

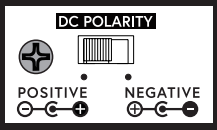
DC OUTPUT SOCKET SETTINGS
BEFORE CONNECTING DC POWERED EXTERNAL DEVICES, POWER THEM OFF AND CONFIGURE THE DC OUTPUT SETTINGS AS PROVIDED BELOW:

1. Check the voltage (V) of your DC powered device and using a flat-head screwdriver, turn the **DC VOLTAGE** selector until the arrow will point to the same value as your device voltage.



Note! If the voltage compatible with your device is not available, the device cannot be used with the Power Supply!

2. Check the polarity of your DC powered device and set the **DC POLARITY** selector to the correct setting consistent with the polarity of your device.



3. Check the power plug shape and type in your DC powered device (at the device side) and use a compatible plug for the DC-output cable. Check “DC-output Cable Configuration” for more details.

Note! Never change the above-mentioned settings while the Power Supply or the connected DC powered device are turned on.

The user is fully responsible for checking specifications of external devices and setting the correct DC VOLTAGE and DC POLARITY for the DC Output Socket (DC OUT).
TAGA Harmony is not liable for damage to the Power Supply and external devices in case of incorrect setting of the above-mentioned.

Hooking Up the Power Supply

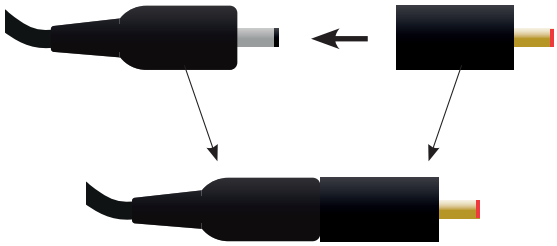
DC-output Cable Configuration

The Power Supply comes with the DC-output Cable that allows using different plugs provided in the set.

Select a plug that is compatible with your DC powered device and mount it on the cable plug.

Mounting the plug

Insert the external plug

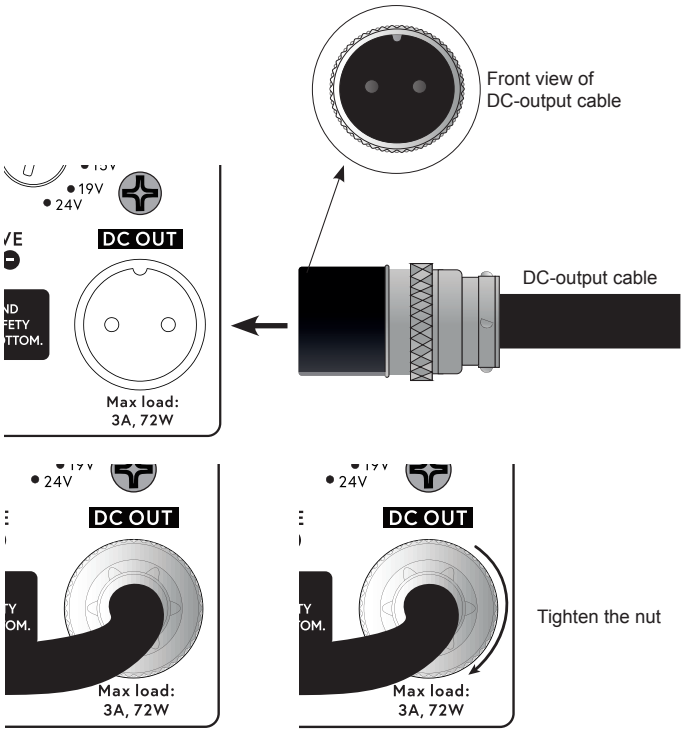


Supplied plugs

Size of tip Type
DC 5.5 x 2.1 x 11 mm (installed on the DC-output Cable)
DC 3.5 x 1.35 x 9.5 mm
DC 2.5 x 0.7 x 9 mm
DC 4.0 x 1.7 x 10 mm
DC 4.0 x 1.35 x 10 mm
DC 4.8 x 1.7 x 10 mm
DC 5.0 x 3.0 x 10 mm
DC 5.5 x 2.5 x 11 mm
DC 6.3 x 3.0 x 11 mm
USB C

Hooking Up the Power Supply

Connecting the DC-output Cable to the Power Supply



2. Connect the DC-output cable to your DC powered device.

The user is fully responsible for checking specifications of external devices and using the correct plug for the DC-output Cable.
TAGA Harmony is not liable for damage to the Power Supply and external devices in case of using incorrect plugs.

Note! Never remove the DC power cable while the Power Supply or the connected DC powered device are turned on.

Hooking Up the Power Supply

CONNECTING DEVICES TO USB PORTS

3. Using USB cables connect compatible equipment to the USB Ports.

The USB Ports are only intended for powering or charging devices which are compatible with the USB Charging Ports technical data printed on the Power Supply:
Output: DC - direct current and voltage provided in Volts.
Max total load: - maximum total load when all USB Charging Ports are used simultaneously.
[Maximum load for a single USB Port = the Max total load divided by a number of devices being powered/charged].
The total load generated by all devices connected to the charger must not exceed the Maximum total load.

- The number of devices which may be powered/charged simultaneously is limited to a number of USB Ports this Power Supply is equipped with.
  Never connect more than 1 device to a single USB Port.
- Use only a recommended USB cable for your device and replace faulty cables immediately.

The user is fully responsible for checking specifications of external devices and using compatible with this Power Supply.
TAGA Harmony is not liable for damage to the Power Supply and external devices in case of connecting incompatible devices.

Note! Charging may lower the efficiency of the power noise filtering - we recommend not charging any devices during critical listening.

4. Your Power Supply is ready for operation.

Operation

This unit requires a single-phase 3-conductor electrical outlet.

1. Plug the Power Cable to the Power Supply and into the electrical outlet.
2. Turn on the Power Supply (the Power Switch should be in the upper ON position).

At the initial stage (approx. a few seconds), after connecting the Power Supply to the electrical outlet, noises may be heard from the built-in power transformer - this is normal and is related to the initialization of the device (charging the capacitors).

Digital Display

3. After the first power on the Digital Display will be displaying: DC Output Voltage in Volts and DC Polarity according to the setting of the user (check “CONNECTING DC POWERED DEVICES” for more information).
   Note! The Digital Display only shows data for the DC OUTPUT.

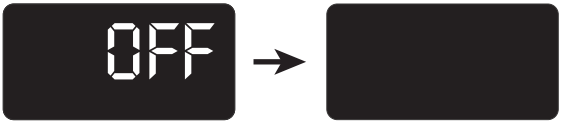
Digital Display Button – press to select the below parameter to be displayed on the Digital Display.
- DC Output Voltage (in Volts);
- DC Output Current (depending on the measurement: in Milliamperes or Amperes);
- DC Output Power (in Watts);

or to turn off the Digital Display.

Parameter Setting Memory

The last selected parameter is automatically saved and will reappear when the device is powered on again.

Operation

DISPLAYED PARAMETER FOR THE DC OUTPUT	USER SELECTED POLARITY POSITIVE ⊕	USER SELECTED POLARITY NEGATIVE ⊖
Voltage*		
Current Milliamperes or Ampers	 	 
Power		
OFF This turns off the Display. [OFF] will be displayed briefly, and then the screen will go blank.		

***** The DC Voltage is directly related to AC Voltage input fluctuations, and as such, the Display readings may vary from the DC VOLTAGE you have set.
This is normal operation and will not negatively affect the performance of your connected DC-powered device.

Note! Indications of the Digital Display are approximate and should not be taken into account for the professional assessment of the powering quality.
The accuracy of the indications is within a ±3% tolerance.

Turn on your audio-video equipment and enjoy your system.

Operation

DC Output Protection against External Devices Malfunction System
Surge and Overload Protection System

4. The Power Supply is equipped with a protection system for all outputs.
If this system is activated and there is no power, follow the steps below.

A. If the Digital Display shows [FAIL].

This may indicate a problem (e.g., a short circuit or a returning high output voltage to the Power Supply) with an external device connected to the Power Supply.

I. Disconnect the Power Supply from its power source.
II. Disconnect all external devices from the Power Supply.
III. Wait at least 15 minutes for the internal systems to cool down.
IV. Power on the unit without any external devices connected.
V. If the [FAIL] message is gone, check your external devices for malfunctions.
VI. If the [FAIL] message is still displayed, please contact the TAGA Harmony service center.

B. Other cases

I. Disconnect the Power Supply from its power source.
II. Disconnect all external devices from the Power Supply.
III. Check the Mains Fuse on the rear of the device. If it is blown, replace it.

The blown fuse should be only exchanged for the same type as indicated on the rear panel of the device and in the specifications.
The Power Cable should be disconnected!

Note! Except for the Mains Fuse, the device is equipped with an internal fuse located on the main board.
If it is blown, please contact the TAGA Harmony service center for replacement.

IV. Power on the Power Supply.
V. If the Power Supply does not return to normal operation, please contact the TAGA Harmony service center.

Specifications

We strongly advise to contact a professional installer or dealer in order to install TAGA Harmony products.
We recommend using high quality TAGA Harmony cables and other installation accessories.

Sockets	DC output (linear power supply): - 6 selectable DC output voltages (5V, 9V, 12V, 15V, 19V, 24V) - Selectable DC output polarity 1 x USB-C and 1 x USB-A ports (linear power supply) - (5V)
Total maximum power load	DC output 3A, 72W USB ports 2.1A (total)
Noise filter	230-240V : isolating 100W toroidal power transformer DC Voltage : separate filtering for the DC Output and USB ports
Protection System	230-240V Surge/Overload: External fuse T2A/250V Internal fuse T5A/250V DC Output and USB ports Surge/Overload: isolating power transformer -> step-down switching regulator -> short-circuit and thermal overload circuit DC Output Protection against External Devices Malfunction
Features / accessories	USB charging DC Output Digital Voltage/Ampere/Watt indicator (accuracy ±3%) DC-output cable (GX16 2-pin –> DC tip, 1.5 m) Schuko-IEC C13 power cord (1.5 m) DC-output cable plugs: DC tip 5.5 x 2.1 x 11 mm (installed on the DC-output cable) DC tip 3.5 x 1.35 x 9.5 mm DC tip 2.5 x 0.7 x 9mm DC tip 4.0 x 1.7 x 10mm DC tip 4.0 x 1.35 x 10 mm DC tip 4.8 x 1.7 x 10 mm DC tip 5.0 x 3.0 x 10 mm DC tip 5.5 x 2.5 x 11 mm DC tip 6.3 x 3.0 x 11 mm USB C
AC power / power consumption	230V~240V 50/60Hz, 100W max ≈3W (without any external devices plugged in)
Dimensions (H x W x D)	8.80 x 14 x 29.5 cm (height: incl. feet) (depth: excl. 1 cm for the DC Output socket)
Weight	3.6 kg / pc.

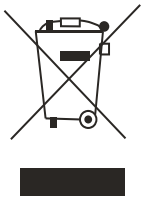
Kit Content:

Power Supply	1 EA
Power Cable	1 EA
DC-output Cable	1 EA
DC plugs	9 EA
Instruction Manual	1 EA

EU declaration of conformity

CE	Your product is marked with the symbol shown on the left. As its manufacturer, hereby we declare that the product is in compliance with the following EU directives and regulations: 2014/30/EU (EMC) & 2014/35/EU (LVD) & 2015/863/EU (RoHS) The full text of the EU declaration of conformity is available from the manufacturer.

Disposal of the product



Disposal of old electrical & electronic equipment
(applicable in the European Union and other countries with separate collection systems)

This symbol on the product or on its literature and packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the appropriate collection point for the recycling of electrical and electronic equipment. By ensuring that this product is disposed of correctly, you will help to prevent potential negative consequences for the environment and human health, which could be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local government office, your household waste disposal service or the shop where you purchased the product.

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