

hp HSN-I45C-6 AC Adapter with Power Cord



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About This Guide

This guide provides regulatory, safety, and environmental information that is compliant with U.S., Canadian, and international regulations for notebook computers, tablets, desktops, thin clients, personal workstations, all-in-ones, and point-of-sale terminals. To access the latest user guides, go to <http://www.hp.com/support>, and follow the instructions to find your product. Then select User Guides.

- **WARNING!** Indicates a hazardous situation that, if not avoided, could result in serious injury or death.
- **CAUTION:** Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.
- **IMPORTANT:** Indicates information considered important but not hazard-related (for example, messages related to property damage). Warns the user that failure to follow a procedure exactly as described could result in loss of data or in damage to hardware or software. Also contains essential information to explain a concept or to complete a task.
- **NOTE:** Contains additional information to emphasize or supplement important points of the main text.
- **TIP:** Provides helpful hints for completing a task.

Regulatory notices

This chapter provides country- and region-specific non-wireless and wireless regulatory notices and compliance information for the computer product. Some of these notices may not apply to your product. One or more integrated wireless devices may be installed. In some environments, the use of wireless devices may be restricted. Such restrictions may apply aboard airplanes, in hospitals, near explosives, in hazardous locations, and so on. If you are uncertain of the policy that applies to the use of this product, ask for authorization to use it before you turn it on.

Accessing regulatory labels

Regulatory labels, which provide country or regional regulatory information (for example, FCC ID), may be physically located on the bottom of the computer, inside the battery bay (select products only), under the removable service door (select products only), on the back of the display, or on the wireless or modem module. Some products may also provide electronic regulatory labels (e-labels) that can be accessed through the system BIOS.

- **NOTE:** Electronic labels are not available on all products.
- **NOTE:** Devices not for sale or use in the United States may not contain a FCC ID.

To view electronic regulatory labels:

1. Turn on or restart the computer.
2. Press esc or f10 to enter Computer Setup.
3. Use a pointing device or the arrow keys to select Advanced, select Electronic Labels, and then press enter.
4. To view an electronic label, use a pointing device or the arrow keys to select one of the listed items, and then press OK.

NOTE: The list of available electronic label items varies depending on the computer model and installed devices.

5. To exit Computer Setup menus without making any changes: Select the Exit icon in the lower-right corner of the screen, and then follow the on-screen instructions. – or – Use the arrow keys to select Main, select Ignore Changes and Exit, and then press enter.

Federal Communications Commission notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or television technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

For questions regarding this product:

- Write to: HP Inc. 1501 Page Mill Road Palo Alto, CA 94304

- Call HP at 650-857-1501 – or –
- Email techregshelp@hp.com

To identify this product, refer to the part, series, or model number found on the product.

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by HP may void the user's authority to operate the equipment.

Cables

To maintain compliance with FCC Rules and Regulations, connections to this device must be made with shielded cables having metallic RFI/EMI connector hoods.

Products with wireless LAN devices or HP Mobile Broadband Modules

This device must not be co-located or operating in conjunction with any other antenna or transmitter.

WARNING! Exposure to Radio Frequency Radiation The radiated output power of this device is below the FCC radio frequency exposure limits. Nevertheless, the device should be used in a manner that is in conformance with the expected typical usage.

Belarus regulatory notice

The product complies with the Belarus National Radio/Telecom Technical Regulation TR 2018/024/BY.



Canada notices

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations, CAN ICES-3(B)/NMB-3(B). If this device has WLAN or Bluetooth capability, the device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

WARNING! Exposure to Radio Frequency Radiation: The radiated output power of this device is below the Industry Canada radio frequency exposure limits. Nevertheless, the device should be used in a manner that is in conformance with the expected typical usage.

IMPORTANT: When using IEEE 802.11a, n, or ac wireless LAN, this product is restricted to indoor use, due to its operation in the 5.15 GHz to 5.25 GHz frequency range. Industry Canada requires this product to be used indoors for the frequency range of 5.15 GHz to 5.25 GHz to reduce the potential for harmful interference to co-channel mobile satellite systems. High-power radar is allocated as the primary user of the 5.25 GHz to 5.35 GHz and 5.65 GHz to 5.85 GHz bands. These radar stations can cause interference with and/or damage to this device. The antennas for this device are not replaceable. Any attempt at user access will damage your computer.

European Union regulatory notices

Declaration of Conformity

Products bearing the CE marking have been constructed so that they can operate in at least one EU Member State and comply with one or more of the following EU Directives as may be applicable: RED 2014/53/EU; Low Voltage Directive 2014/35/EU; EMC Directive 2014/30/EU; Ecodesign Directive 2009/125/EC; RoHS Directive 2011/65/EU. Compliance with these directives is assessed using applicable European Harmonised Standards. The full Declaration of Conformity can be found at the following website: <http://www.hp.eu/> certificates (Search with the product model name or its Regulatory Model Number (RMN), which may be found on the regulatory label.) The point of contact for regulatory matters is HP Deutschland GmbH, HQ-TRE, 71025, Boeblingen, Germany. Email techregshelp@hp.com.

Products with radio functionality (EMF)

This product incorporates a radio transmitting and receiving device. For notebook computers in normal use, a separation distance of 20 cm ensures that radio frequency exposure levels comply with EU requirements. Products designed to be operated at closer proximities, such as tablet computers, comply with applicable EU requirements in typical operating positions. Products can be operated without maintaining a separation distance unless otherwise indicated in instructions specific to the product.

Restrictions for products with radio functionality (select products only)

IMPORTANT: IEEE 802.11x wireless LAN with 5.15–5.35 GHz frequency band is restricted for indoor use only in all countries reflected in the matrix. Using this WLAN application outdoors might lead to interference issues with existing radio services.

IMPORTANT: Fixed outdoor installations for WiGig application (57–66 GHz frequency band) are excluded in all countries reflected in the matrix.

				
AT	BE	BG	CH	CY
CZ	DE	DK	EE	EL
ES	FI	FR	HR	HU
IE	IS	IT	LI	LT
LU	LV	MT	NL	NO
PL	PT	RO	RS	SE
SI	SK	TR	UK	

Radio frequency bands and maximum power levels (select products and countries only)

Radio Technology	Maximum Transmit Power EIRP (mW)
Bluetooth; 2,4 GHz	100
NFC; 13,56 MHz	10
RFID; 865-868 MHz/915-921 MHz	2000/4000
WLAN Wi-Fi 802.11x; 2,4 GHz	100
WLAN Wi-Fi 802.11x; 5 GHz	200
WWAN 4G LTE; 700/800/900/1800/2100/2300/2600/3500 MHz	200
WWAN 3G UTS; 900/2100 MHz	250
WWAN 2G GSM GPRS EDGE; 900 MHz	2000
WWAN 2G GSM GPRS EDGE; 1800 MHz	1000
WiGig 802.11ad; 60 GHz	316
NOTE: Use only HP-supported software drivers and correct country settings to ensure compliance.	

Ergonomics notice

When a mobile computer is used at the office workstation for display work tasks where the Visual Display Unit (VDU) Directive 90/270/EEC is applicable, an adequate external keyboard is required. Depending on the application and task, an adequate external monitor may also be necessary to attain working conditions comparable to a workstation setup.

Ref: EK1-ITB 2000 (voluntary GS certification) Mobile computers bearing the “GS” approval mark meet the applicable ergonomic requirements. Without external keyboards, they are suitable only for short-time use for VDU tasks. During mobile use with disadvantageous illumination conditions (e.g. direct sunlight), reflections may occur, which result in reduced readability. A computer system comprising HP brand products meets the applicable ergonomic requirements if all affected constituent products bear the “GS” approval mark, for example, Business Desktop PC, keyboard, PCmouse, and monitor. European telephone network declaration (Modem/Fax) The product herewith complies with the requirements of the applicable Directive and carries the CE marking accordingly. However, due to differences between the individual PSTNs provided in different countries/ regions, the approval does not, of itself, give an unconditional assurance of successful operation on every PSTN network termination point. In the event of problems, you should contact your equipment supplier in the first instance.

Australia and New Zealand notice

This equipment incorporates a radio transmitting and receiving device. In normal use, a separation distance of 20 cm ensures that radio frequency exposure levels comply with the Australian and New Zealand Standards. The computer must be connected to the Telecommunication Network through a line cord that meets the requirements of AS/CA S008.

Wireless LAN, Wireless WAN, and Bluetooth® certification markings

- This product contains certified radio equipment. Some products may use electronic regulatory labels (e-labels). To view the certification mark and numbers on an e-label, please refer to the previous “Accessing regulatory labels” section.

Singapore wireless notice

Turn off any WWAN devices while you are aboard the aircraft. The use of these devices aboard aircraft is illegal,

may be dangerous to the operation of the aircraft, and may disrupt the cellular network. Failure to observe this instruction may lead to suspension or denial of cellular services to the offender, or legal action, or both. Users are reminded to restrict the use of radio equipment in fuel depots, chemical plants, and where blasting operations are in progress. As with other mobile radio transmitting equipment, users are advised that for the satisfactory operation of the equipment and for the safety of personnel, no part of the human body should be allowed to come too close to the antennas during the operation of the equipment. This device has been designed to comply with applicable requirements for exposure to radio waves, based on scientific guidelines that include margins intended to assure the safety of all people, regardless of health and age. These radio wave exposure guidelines employ a unit of measurement known as the specific absorption rate (SAR). Tests for SAR are conducted using standardized methods, with the phone transmitting at its highest certified power level in all used frequency bands. The SAR data information is based on CENELEC's standards EN50360 and EN50361, which use the limit of 2 watts per kilogram, averaged over 10 grams of tissue.

Airline travel notice

Use of electronic equipment aboard commercial aircraft is at the discretion of the airline.

User-replaceable battery notices

When a battery has reached the end of its useful life, do not dispose of the battery in general household waste. Follow the local laws and regulations in your area for computer battery disposal. HP encourages customers to recycle used electronic hardware, HP original print cartridges, and rechargeable batteries. For more information about recycling programs, refer to the HP website at <http://www.hp.com/recycle>. For information about removing a user-replaceable battery, refer to the user guide included with the product.

Factory-sealed battery notices

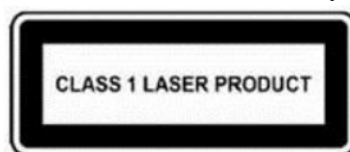
The battery[ies] in this product cannot be easily replaced by users themselves. Removing or replacing the battery could affect your warranty coverage. If a battery is no longer holding a charge, contact support. When a battery has reached the end of its useful life, do not dispose of the battery in general household waste. Follow the local laws and regulations in your area for battery disposal.

Laser compliance

WARNING! Use of controls or adjustments, or performance of procedures other than those specified in the laser product installation guide, may result in hazardous radiation exposure. To reduce the risk of exposure to hazardous radiation:

- Do not try to open the module enclosure. There are no user-serviceable components inside.
- Do not operate controls, make adjustments, or perform procedures to the laser device other than those specified in the laser product installation guide.
- Allow only authorized service providers to repair the unit.

This product may be provided with an optical storage device (for example, a CD or DVD drive) and/or a fiber optic transceiver. Each of these devices that contain a laser is classified as a Class 1 Laser Product under IEC/EN 60825-1 and meets the requirements for safety of that standard. Each laser product complies with US FDA regulations of 21 CFR 1040.10 and 1040.11 or complies with those regulations except for deviations under Laser Notice No. 50 dated June 24, 2007 or Laser Notice No. 56, dated May 8, 2019.



Telecommunications device approvals

The telecommunications device in the computer is approved for connection to the telephone network in the

countries and regions whose approval markings are indicated on the product label located on the bottom of the computer or on the modem. Refer to the user guide included with the product to ensure that the product is configured for the country or region in which the product is located. Selecting a country or region other than the one in which it is located may cause the modem to be configured in a way that violates the telecommunication regulations/laws of that country or region. In addition, the modem may not function properly if the correct country or region selection is not made. If, when you select a country or region, a message appears that states that the country or region is not supported, this means that the modem has not been approved for use in this country or region and thus should not be used.

Modem notices

U.S. modem statements

This equipment complies with Part 68 of the FCC Rules and the requirements adopted by the ACTA. On the bottom of the computer or the modem is a label that contains, among other information, a product identifier in the format US: AAAEQ##TXXXX. Provide this information to the telephone company if you are requested to do so. Applicable certification jack USOC = RJ11C. A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant. See installation instructions for details.

The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all locations, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company. For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format US: AAAEQ##TXXXX. The digits represented by ## are the REN without a decimal point (e.g., 03 is a REN of 0.3). For earlier products, the REN is separately shown on the label.

If this HP equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But, if advance notice isn't practical, the telephone company will notify you as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary. The telephone company may make changes to its facilities, equipment, operations, or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advance notice for you to make necessary modifications to maintain uninterrupted telephone service.

If trouble is experienced with this equipment, call technical support. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved. You should perform repairs only to the equipment specifically discussed in the "Troubleshooting" section of the user guide if one is provided. Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission, or corporation commission for information. If your home has specially wired alarm equipment connected to the telephone line, ensure that the installation of this HP equipment does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

The Telephone Consumer Protection Act of 1991 makes it unlawful for any person to use a computer or other electronic device, including a fax machine, to send any message unless such message contains a margin at the top or bottom of each transmitted page, or on the first page of the transmission, the date and time it is sent and an identification of the business, other entity, or other individual sending the message, and the telephone number of the sending machine or such business, other entity, or individual. (The telephone number provided may not be a 900 number or any other number for which charges exceed local or long-distance transmission charges). To program this information into your fax machine, you should complete the steps outlined in the faxing software instructions.

Canada modem statements

This equipment meets the applicable Industry Canada technical specifications. The Ringer Equivalence Number,

REN, is an indication of the maximum number of devices allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices, subject only to the requirement that the sum of the RENs of all devices does not exceed 5. The REN for this terminal equipment is 1.0.

Japan modem statements

If the computer does not have the Japanese certification mark on the bottom of the computer, refer to the appropriate certification marking below. The Japanese certification mark for the V.92 56K Data/Fax Modem is below:



If the computer does not have the Japanese certification mark on the bottom of the computer, refer to the appropriate certification marking below. The Japanese certification mark for the LSI Corporation PCI-SV92EX Soft modem is below:



New Zealand modem statements

The grant of a Telepermit for any item of terminal equipment indicates only that Telecom has accepted that the item complies with minimum conditions for connection to its network. It indicates no endorsement of the product by Telecom, nor does it provide any sort of warranty. Above all, it does not assure that any item will work correctly in all respects with another item of Telepermitted equipment of a different make or model, nor does it imply that any product is compatible with all of Telecom's network services. This equipment is not capable, under all operating conditions, of correct operation at the higher speeds for which it is designed. Telecom will accept no responsibility should difficulties arise in such circumstances. If this device is equipped with pulse dialing, note that there is no guarantee that Telecom lines will always continue to support pulse dialing. Use of pulse dialing, when this equipment is connected to the same line as other equipment, may give rise to bell tinkle or noise and may also cause a false answer condition. Should such problems occur, the user should not contact the Telecom Faults Service. Some parameters required for compliance with Telecom's Telepermit requirements are dependent on the equipment (PC) associated with this device. The associated equipment shall be set to operate within the following limits for compliance with Telecom's Specifications:

- There shall be no more than 10 call attempts to the same number within any 30-minute period for any single manual call initiation.
- The equipment shall go on-hook for a period of not less than 30 seconds between the end of one attempt and the beginning of the next attempt.
- Where automatic calls are made to different numbers, the equipment shall be set to go on-hook for a period of not less than 5 seconds between the end of one attempt and the beginning of the next attempt.
- The equipment shall be set to ensure that calls are answered between 3 and 30 seconds of receipt of ringing (So set between 2 and 10).

Voice support

All persons using this device for recording telephone conversations shall comply with New Zealand law. This requires that at least one party to the conversation is aware that it is being recorded. In addition, the Principles enumerated in the Privacy Act 1993 shall be complied with in respect to the nature of the personal information

collected, the purpose for its collection, how it is to be used, and what is disclosed to any other party. This equipment shall not be set to make automatic calls to the Telecom '111' Emergency Service.

Macrovision Corporation notice

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation and is intended for home and other limited viewing uses only, unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Safety notices

Important safety information

WARNING! To reduce the risk of serious injury, read the Safety & Comfort Guide. It describes proper workstation setup, posture, and health and work habits for computer users, and provides important electrical and mechanical safety information. This guide is located on the Web at <http://www.hp.com/ergo> and on the Documentation CD that is included with the product. The computer may be heavy; be sure to use ergonomically correct lifting procedures when moving it.

Install the computer near an AC outlet. The AC power cord is your computer's main AC disconnecting device and must be easily accessible at all times. If the power cord provided with your computer has a grounded plug, always use the power cord with a properly grounded AC outlet to avoid the risk of electric shock. To reduce the possibility of an electric shock from the telephone network, plug your computer into the AC outlet before connecting it to the telephone line. Also, disconnect the telephone line before unplugging your computer from the AC power outlet. Always disconnect the modem cord from the telephone system before installing or removing your computer cover. Do not operate the computer with the cover removed. For your safety, always unplug the computer from its power source and any telecommunications systems (such as telephone lines), networks, or modems before performing any service procedures. Failure to do so may result in personal injury or equipment damage. Hazardous voltage levels are inside the power supply and modem of this product. As a safety precaution, if the system power load exceeds the specific configuration's capacities, the system may temporarily disable some USB ports.

WARNING! To reduce the risk of fire, electric shock, and injury to persons when using this device, always follow basic safety precautions, including the following:

- Do not use this product near water—for example, near a bathtub, wash bowl, kitchen sink or laundry tub, in a wet basement, or near a swimming pool.
- Avoid using this product during an electrical storm. There is a remote risk of electric shock from lightning.
- Do not use this product to report a gas leak while in the vicinity of the leak.
- Always disconnect the modem cable before opening the equipment enclosure or touching an uninsulated modem cable, jack, or internal component.
- If this product was not provided with a telephone line cord, use only No. 26 AWG or larger telecommunication line cord.
- Do not plug a modem or telephone cable into the RJ-45 (network) jack.

SAVE THESE INSTRUCTIONS.

IMPORTANT: If your computer is provided with a voltage select switch for use in a 115 or 230 V power system, the voltage select switch has been pre-set to the correct voltage setting for use in the particular country/region where it was initially sold. Changing the voltage select switch to the incorrect position can damage your computer and void any implied warranty. This product has not been evaluated for connection to an "IT" power system (an AC

distribution system with no direct connection to earth, according to applicable safety standards).

Heat-related safety warning notice

WARNING! To reduce the possibility of heat-related injuries or of overheating the mobile computer, do not place the mobile computer directly on your lap or obstruct the computer air vents. Use the mobile computer only on a hard, flat surface. Do not allow another hard surface, such as an adjoining optional printer, or a soft surface, such as pillows or rugs or clothing, to block airflow. Also, do not allow the AC adapter to contact the skin or a soft surface, such as pillows or rugs or clothing, during operation. The mobile computer and the AC adapter comply with the user-accessible surface temperature limits defined by applicable safety standards.

Potential safety conditions notice

If you notice any of the following conditions (or if you have other safety concerns), do not use the computer: crackling, hissing, or popping sound, or a strong odor or smoke coming from the computer. It is normal for these conditions to appear when an internal electronic component fails in a safe and controlled manner. However, these conditions may also indicate a potential safety issue. Do not assume it is a safe failure. Turn off the computer, disconnect it from its power source, and contact technical support for assistance.

Installation conditions

See installation instructions before connecting this equipment to the input supply.

WARNING! Energized and moving parts may be inside the computer. Disconnect power to the equipment before removing the enclosure. Replace and secure the enclosure before re-energizing the equipment.


Acoustics notice

The sound pressure level (LpA) is far below 70dB(A) (operator position, normal operation, according to ISO 7779). To display product noise emission data, go to "IT ECO Declarations" at <http://www.hp.com/go/ted>, and then select a product category from the drop-down menu.

Battery notices

- **WARNING!** The product may contain an internal lithium manganese dioxide, vanadium pentoxide, or alkaline battery or battery pack. There is risk of fire and burns if the battery pack is not handled properly.
- **WARNING!** Do not attempt to recharge the battery.
- **WARNING!** Do not expose to temperatures higher than 60° C (140° F).
- **WARNING!** To reduce potential safety issues, only the battery provided with the computer, a replacement battery provided by HP, or a compatible battery purchased as an accessory from HP should be used with the computer. Fast charging may not be available for non-compatible or non-HP batteries.
- **WARNING!** To reduce the risk of fire or burns, do not disassemble, crush, puncture, short external contacts, or dispose of in fire or water.
- **WARNING!** Risk of explosion if the battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.
- **WARNING!** Replace only with the HP spare designated for this product.
- **WARNING!** Do not ingest battery, a Chemical Burn Hazard.
- **WARNING!** This product contains a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.

- **WARNING!** Keep new and used batteries away from children.
- **WARNING!** If the battery compartment does not close securely, stop using the product and keep it away from children.
- **WARNING!** If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.
- **WARNING!** Leaving a battery in an extremely high temperature surrounding environment can result in an explosion or the leakage of flammable liquid or gas.
- **WARNING!** A battery subjected to extremely low air pressure may result in an explosion or the leakage of flammable liquid or gas.

Icon	Description
	Batteries, battery packs, and accumulators should not be disposed of together with the general household waste. In order to forward them to recycling or proper disposal, please use the public collection system or return them to HP, an authorized HP partner, or their agents.

Fan notices

- **WARNING!** Keep body parts away from moving parts.
- **WARNING!** Keep body parts away from fan blades.
- **WARNING!** Keep body parts out of the motion path.

Headset and earphone volume level notice

WARNING! To prevent possible hearing damage, do not listen at high volume levels for long periods. Adjustment of the volume control as well as the equalizer to other settings than the center position may increase the ear-/headphone output voltage and therefore the sound pressure level. The use of factors influencing the ear-/headphone output other than those specified by the manufacturer (e.g. operating system, equalizer software, firmware, driver) may increase the ear-/headphones output voltage and therefore the sound pressure level.

Laser safety

For products equipped with optical drives or fiber optic transceivers. This product may be provided with an optical storage device (i.e., CD or DVD drive) and/or fiber optic transceiver. These contain lasers and are classified as Class 1 Laser Products under the standard IEC/EN 60825-1 and comply with its requirements. Each laser product complies with US FDA Regulations of 21 CFR 1040.10 and 1040.11 or complies with those regulations except for deviations under Laser Notice No. 50, dated June 24, 2007, or Laser Notice No. 56, dated May 8, 2019.

WARNING! Use of controls or adjustments or performance of procedures other than those specified herein or in the laser product's installation guide may result in hazardous radiation exposure. To reduce the risk of exposure to hazardous radiation:

- Do not try to open the module enclosure. There are no user-serviceable components inside.
- Do not operate controls, make adjustments, or perform procedures to the laser device other than those specified herein.
- Allow only HP Authorized Service technicians to repair the unit.

Power supply and power cord set requirements

Power supply class I grounding requirements

For protection from fault currents, the equipment shall be connected to a grounding terminal. Plug the system power cord into an AC outlet that provides a ground connection. Substitute cords may not provide adequate fault protection. Only use the power cord supplied with this product or an HP Inc. authorized replacement.

Power supply requirements

The power supplies on some products have external power switches. The voltage select switch feature on the product permits it to operate from any line voltage between 100-127 or 200-240 volts AC. Power supplies on those products that do not have external power switches are equipped with internal circuits that sense the incoming voltage and automatically switch to the proper voltage.

WARNING! To reduce potential safety issues, only the AC adapter provided with the computer, a replacement AC adapter provided by HP, or an AC adapter purchased as an accessory from HP should be used with the computer.

For use in Norway

Some products are designed for an IT power system with phase-to-phase voltage 230 V.

Power cord set requirements

WARNING! To reduce the risk of electric shock or damage to the equipment:

- Plug the power cord into an AC outlet that is easily accessible at all times.
- Disconnect power from the computer by unplugging the power cord from the AC outlet.
- If provided with a 3-pin attachment plug on the power cord, plug the cord into a grounded (earthed) 3-pin outlet. Do not disable the power cord grounding pin, for example, by attaching a 2-pin adapter. The grounding pin is an important safety feature.

The power cord set received with the product meets the requirements for use in the country where the equipment was originally purchased. Use only the power cord provided with the unit or an authorized replacement power cord from HP Inc. or an approved HP Inc. source. Replacement part numbers may be found at <http://www.hp.com/support>. Power cord sets for use in other countries must meet the requirements of the country where you use the product. For more information on power cord set requirements, contact your authorized HP dealer, reseller, or service provider.

WARNING! Do not use power cords from other products. Mismatched power cords may result in a shock and fire hazard.

The requirements listed below applies to all countries:

- The power cord must be approved by an acceptable accredited agency responsible for evaluation in the country where the power cord set will be installed. The power cord should be routed so that it is not likely to be walked on or pinched by items placed upon it or against it. Particular attention should be paid to the plug, electrical outlet, and the point where the cord exits from the product.

WARNING! Do not operate this product with a damaged power cord set. If the power cord set is damaged in any manner, replace it immediately. Damaged cords may result in user exposure to hazards.

Power cord notice

If you were not provided with a power cord for the computer or for an external power accessory intended for use with the computer, you should purchase a power cord that is approved for use in your country or region. The

power cord must be rated for the product and for the voltage and current marked on the product's electrical ratings label. The voltage and current rating of the cord should be greater than the voltage and current rating marked on the product. In addition, the diameter of the wire must be a minimum of 0.75 mm²/ 18AWG, and the length of the cord must be between 1.0 m (3.2 ft) and 2 m (6.56 ft). If you have questions about the type of power cord to use, contact your authorized service provider. A power cord should be routed so that it is not likely to be walked on or pinched by items placed upon it or against it. Particular attention should be paid to the plug, electrical outlet, and the point where the cord exits from the product.

DC plug of external HP power supply



Japan power cord requirements

For use in Japan, use only the power cord received with this product.

CAUTION: Do not use the power cord received with this product on any other products.

Pinch hazard

WARNING! Observe pinch hazard areas. Keep fingers away from closing parts.

TV antenna connector protection

External television antenna grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is electrically grounded to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information about proper electrical grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, size of grounding conductors, location of the antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Lightning protection

For added protection of any product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug the product from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product from lightning and power line surges.

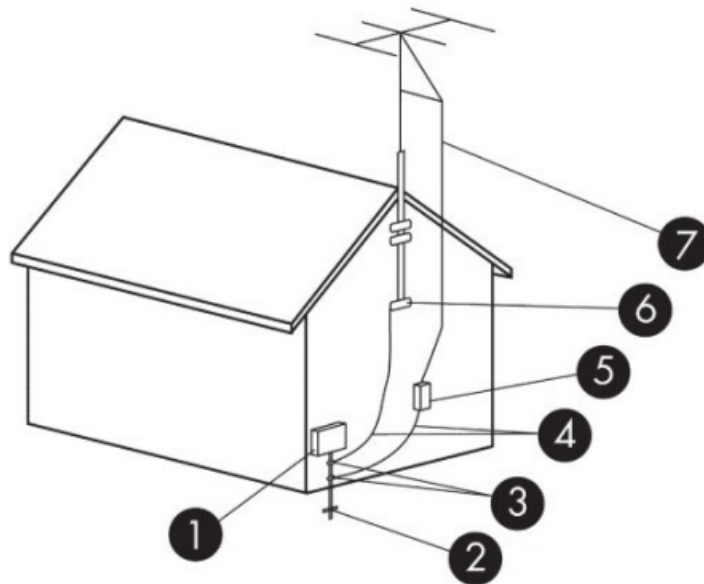


Table 2-1 Antenna Grounding

Reference	Grounding Component
1	Electric Service Equipment
2	Power Service Grounding Electrode System (NEC Art 250, Part III)
3	Ground Clamps
4	Grounding Conductors (NEC Section 810.21)
5	Antenna Discharge Unit (NEC Section 810.20)
6	Ground Clamp
7	Antenna Lead-in Wire

Norway and Sweden cable grounding notice for products with a TV tuner

CAUTION: To reduce potential safety issues, use a galvanic isolator when connecting to a cable distribution system.

Environmental notices

This chapter provides country- and region-specific environmental notices and compliance information. Some of these notices may not apply to your product.

Electronic hardware, packaging and battery recycling

HP encourages customers to recycle used electronic hardware, HP original print cartridges packaging, and rechargeable batteries. For more information about recycling programs, go <http://www.hp.com/recycle>. For information about recycling the product in Japan, refer to <http://www.hp.com/jp/hardwarerecycle/>.

Disposal of waste equipment by users

Icon/Description

This symbol means do not dispose of your product with your other household waste. Instead, you should protect human health and the environment by handing over your waste equipment to a designated collection point for the

recycling of waste electrical and electronic equipment. For more information, please contact your household waste disposal service or go to <http://www.hp.com/recycle>.

Taiwan battery recycling information

Icon/Description

The Taiwan EPA requires dry battery manufacturing or importing firms, in accordance with Article 15 of the Waste Disposal Act, to indicate the recovery marks on the batteries used in sales, giveaways, or promotions. Contact a qualified Taiwanese recycler for proper battery disposal.

ENERGY STAR® Certification (select products only)

ENERGY STAR is a U.S. Environmental Protection Agency voluntary program that helps businesses and individuals save money and protect our climate through superior energy efficiency. Products that earn the ENERGY STAR prevent greenhouse gas emissions by meeting strict energy efficiency criteria or requirements set by the U.S. Environmental Protection Agency. As an ENERGY STAR Partner, HP Inc. has followed the U.S. EPA's enhanced product certification process to ensure that products marked with the ENERGY STAR logo are ENERGY STAR certified per the applicable ENERGY STAR guidelines. The following logo appears on all ENERGY STAR-certified computers:

A key ENERGY STAR requirement for computer products is power management features that significantly reduce energy consumption when the product is not in use. Power management allows a computer to automatically enter a low-power "sleep" mode, or other low-power mode, after a defined period of inactivity. The power management features have been preset as follows when the computer is operating on AC power:

Computer type	Time to activate display sleep mode	Time to activate computer sleep mode (minutes)	Resuming from sleep mode
Notebooks, Mobile Workstations	Less than or equal to 15 minutes (varies by model)	Less than or equal to 30 minutes (varies by model)	The product will exit sleep mode when the power/sleep button is pressed. If Wake-on-Lan (WOL) is enabled, the system can resume sleep in response to a network signal.
Tablets/Slates	Less than or equal to 1 minute	Not applicable	Not applicable
Desktops, Integrated Desktops, Workstations	Less than or equal to 15 minutes (varies by model)	Less than or equal to 30 minutes (varies by model)	The product will exit sleep mode when the user interacts with any input device, including the mouse or keyboard. If Wake-on-Lan (WOL) is enabled, the system can

Computer type	Time to activate display sleep mode	Time to activate computer sleep mode (minutes)	Resuming from sleep mode
			resume from sleep in response to a network signal.
Thin clients	Less than or equal to 15 minutes (varies by model)	Less than or equal to 30 minutes when sleep mode is supported by the operating system (varies by model)	When sleep mode is supported by operating system product will exit sleep mode when user interacts with any input device, including the mouse or keyboard. If Wake-on-Lan (WOL) is enabled, the system can resume from sleep in response to a network signal.

For computers that support an always-on, always-connected use profile where internet access is available (such as tablets and slates), alternative low power modes – such as Short or Long Idle modes (as defined in the ENERGY STAR Computer Program Requirements) are provided that consume very little power (≤ 10 Watts) and when applicable, maximize product battery life. These alternative low power modes are dynamic, with the display sleep mode activated within 1 minute of user inactivity. The computer exits Sleep when the power/Sleep button is pressed. When the Wake On LAN (WOL) feature is enabled, the computer can also exit Sleep in response to a network signal. Additional information on the potential energy and financial savings of the power management feature can be found on the EPA ENERGY STAR Power Management website at <http://www.energystar.gov/powermanagement>. Additional information on the ENERGY STAR program and its environmental benefits are available on the EPA ENERGY STAR website at <http://www.energystar.gov>. ENERGY STAR and the ENERGY STAR mark are registered trademarks owned by the U.S. Environmental Protection Agency.

Chemical substances

HP is committed to providing our customers with information about the chemical substances in our products as needed to comply with legal requirements such as REACH (Regulation EC No. 1907/2006 of the European Parliament and the Council). A chemical information report for this product can be found at <http://www.hp.com/go/reach>.

Mercury statement

This statement applies to all-in-one computers with built-in display panels that do not use LED backlighting. This HP product may contain the following material that might require special handling at end-of-life:

- Mercury in the fluorescent lamp in the display LCD

The disposal of mercury can be regulated because of environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance (EIA) (<http://www.eiae.org>).

Perchlorate material—special handling may apply

The computer's real-time clock battery may contain perchlorate and may require special handling when recycled or disposed of in California. See <http://www.dtsc.ca.gov/hazardouswaste/perchlorate/>.

China PC energy label

Following "The Regulation of the Implementation on China Energy Label for Microcomputers", this microcomputer has an Energy Efficiency Label. The energy efficiency grade, TEC (Typical Energy Consumption), and product category presented on the label are determined and calculated according to the standard GB28380-2012.1.

Energy Efficiency Grades

The grade is determined by the standard with the calculation of base consumption level with the sum of all the

allowances for additional components such as main memory and graphics card. For products of any grade, the TEC should not exceed the value specified in the following table:

Product Type		TEC (kilowatt hour)		
		Grade 1	Grade 2	Grade 3
Desktop microcomputer, AIO	Category A	98.0+ $\sum E_{fa}$	148.0+ $\sum E_{fa}$	198.0+ $\sum E_{fa}$
	Category B	125.0+ $\sum E_{fa}$	175.0+ $\sum E_{fa}$	225.0+ $\sum E_{fa}$
	Category C	159.0+ $\sum E_{fa}$	209.0+ $\sum E_{fa}$	259.0+ $\sum E_{fa}$
	Category D	184.0+ $\sum E_{fa}$	234.0+ $\sum E_{fa}$	284.0+ $\sum E_{fa}$

Product Type		TEC	(kilowatt hour)	
Portable Computer	Category A	20.0+ $\sum E_{fa}$	35.0+ $\sum E_{fa}$	45.0+ $\sum E_{fa}$
	Category B	26.0+ $\sum E_{fa}$	45.0+ $\sum E_{fa}$	65.0+ $\sum E_{fa}$
	Category C	54.5+ $\sum E_{fa}$	75.0+ $\sum E_{fa}$	123.5+ $\sum E_{fa}$
NOTE: $\sum E_{fa}$ is the sum of power factor of product additional functions.				

Typical Energy Consumption

The energy consumption figure presented on the label is the data measured with the representative configuration that covers all the configurations in the registration unit which is selected according to “The Regulation of the Implementation on China Energy Label for Microcomputers”. Thus, the actual energy consumption of this specific microcomputer may not be the same as the TEC data presented in the label.³

Product Category

The product category is determined by the standard according to the microcomputer’s configuration. The categorization of products complies with the regulations in the following table:

Product Type	Configuration Description	
	Desktop microcomputer, AIO	Portable Computer
Category A	The desktop microcomputer and AIO whose configuration is out of the scope of Category B, C, and D	The portable computer whose configuration is out of the scope of Category B and C
Category B	CPU physical core number of 2, and system memory of not less than 2 GB	A Discrete GPU
Category C	<p>CPU physical core number of over 2, with at least one of the following features:</p> <ol style="list-style-type: none"> 1. System memory of not less than 2 GB 2. A Discrete GPU 	The product has a CPU physical core number of not less than 2, system memory of not less than 2GB, A Discrete GPU with a Frame Buffer Width of not less than 128 bits.
Category D	<p>CPU physical core number of not less than 4, with at least one of the following features:</p> <ol style="list-style-type: none"> 1. System memory of not less than 4 GB 2. A Discrete GPU with Frame Buffer Width not less than 128-bit 	

For more details on the specification, please refer to the standard GB28380-2012.

Declaration of the Presence Condition of the Restricted Substances Marking

Restricted substances and its chemical symbols						
Unit	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent chromium (Cr +6)	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
Cables	—	O	O	O	O	O
Chassis/Other	—	O	O	O	O	O
I/O PCAs	—	O	O	O	O	O
(LCD) Liquid crystal display (LCD) panel	—	O	O	O	O	O
Memory	O	O	O	O	O	O
Motherboard, processor, heat sinks	—	O	O	O	O	O
Power pack	—	O	O	O	O	O
Power supply	—	O	O	O	O	O
Storage Devices	—	O	O	O	O	O
Wireless Devices	—	O	O	O	O	O

Note 1: “Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of the presence condition.

Note 2: “O” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.

Note 3: The “—” indicates that the restricted substance corresponds to the exemption.

Restricted substances and its chemical symbols						
Unit	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent chromium (Cr+6)	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
Cables	—	O	O	O	O	O
Chassis/Other	—	O	O	O	O	O
I/O PCAs	—	O	O	O	O	O
(LCD) Liquid crystal display (LCD) panel (for AIO only)	—	O	O	O	O	O
Memory	O	O	O	O	O	O
Motherboard, processor, heat sinks	—	O	O	O	O	O
Power supply	—	O	O	O	O	O
Storage Devices	—	O	O	O	O	O
<p>Note 1: “Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of the presence condition.</p> <p>Note 2: “O” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.</p> <p>Note 3: The “—” indicates that the restricted substance corresponds to the exemption.</p>						

To access the latest user guides, go to <http://www.hp.com/support>, and follow the instructions to find your product. Then select User Guides.

India restriction of hazardous substances (RoHS)

This product, as well as its related consumables and spares, complies with the reduction in hazardous substances provisions of the “India E-waste Rule 2016.” It does not contain lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers in concentrations exceeding 0.1 weight % and 0.01 weight % for cadmium, except where allowed pursuant to the exemptions set in Schedule 2 of the Rule.

Information for European Union Commission Regulation 1275/2008

To locate product power consumption data, including when the product is in networked standby with all wired network ports connected and wireless devices connected, refer to section P14 “Additional information” of the

product IT ECO Declaration at

<http://www.hp.com/hpinfo/globalcitizenship/environment/productdata/itecodesktop-pc.html>.

Where applicable, activate and deactivate a wireless network using the instructions included in the product user guide or the operating system. Information is also available at <http://www.hp.com/support>.

IT ECO declarations

- Notebook or tablet PCs

<http://www.hp.com/hpinfo/globalcitizenship/environment/productdata/iteconotebook-o.html>

- Desktop PCs and Thin Clients

http://www.hp.com/hpinfo/globalcitizenship/environment/productdata/itecodesktop-pc.html?jumpid=reg_R1002_USEN

- Workstations <http://www.hp.com/hpinfo/globalcitizenship/environment/productdata/itecoworkstatio.html>

A Japanese regulatory requirement, defined by specification JIS C 0950, 2008, mandates that manufacturers provide Material Content Declarations for certain categories of electronic products offered for sale after July 1, 2006. To view the JIS C 0950 material declaration for this product, visit <http://www.hp.com/go/jisc0950>.

TCO Certified

This section applies only to products bearing the TCO Certified logo.

A third-party certification according to ISO 14024



Toward sustainable IT products



Say hello to a more sustainable product


IT products are associated with a wide range of sustainability risks throughout their life cycle. Human rights violations occur in the supply chain. Harmful substances are used both in products and their manufacture. Products can often have a short lifespan because of poor ergonomics, low quality, and when they are not able to be repaired or upgraded. This product is a better choice. It meets all the criteria in TCO Certified, the world's most comprehensive sustainability certification for IT products. Additionally, it fulfills the requirements of TCO Certified Edge, the supplemental certification that recognizes leading-edge products that exceed typical performance in a particular sustainability attribute. At our Product Finder (tcocertified.com/product-finder) you can find out which TCO Certified Edge criterion or criteria this product meets.

Criteria in TCO Certified have a life-cycle perspective and balance environmental and social responsibility. Compliance is verified by independent verification organizations that specialize in IT products, social responsibility or other sustainability issues. Verification is done both before and after the certificate is issued, covering the entire validity period. The process also includes ensuring that corrective actions are implemented in all cases of factory non-conformities. Thank you for making a responsible product choice, that helps drive progress towards a more sustainable future!






Want to know more?

Read information about TCO Certified, full criteria documents, news, and updates at tcocertified.com. On the website, you'll also find our Product Finder, which presents a complete, searchable listing of certified products.

Documents / Resources

 Regulatory, Safety, and Environmental Notices Last date	hp HSN-I45C-6 AC Adapter with Power Cord [pdf] User Guide HSN-I45C-6 AC Adapter with Power Cord, HSN-I45C-6, AC Adapter with Power Cord, Adapter with Power Cord, Power Cord
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References

-  dtsc.ca.gov/hazardouswaste/perchlorate/
-  [Homepage | ENERGY STAR](#)
-  [Homepage | ENERGY STAR](#)
-  [Put Your Computers to Sleep | ENERGY STAR](#)
-  [Reciclagem dos suprimentos HP | HP® Brasil](#)
-  [Laptop Computers, Desktops, Printers, Ink & Toner | HP® United Kingdom](#)
-  [index | HP® Official Site](#)
-  [Japan ROHS Declarations](#)
-  [Japan ROHS Declarations](#)
-  hp.com/go/reach
-  [IT ECO Declarations](#)
-  [Product Return and Recycling | HP® Official Site](#)
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- [User Manual](#)

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