

**LLOYTRON**

# UNIVERSAL NOTEBOOK CHARGER with USB



Model. **B1590**

OPERATING INSTRUCTIONS

## INTRODUCTION

Thank you for the purchase of this quality LLOYTRON product. Used carefully and in accordance with the instructions set out below, it should give you trouble free service over a long period of time. Please read and keep these instructions for future reference.

## FEATURES

- 8 common connections for most popular Notebooks and Netbooks.
- 90w max power
- Universal Worldwide Voltage 100 – 240v
- Includes USB 500mA socket
- Automatic Short Circuit and Reverse Polarity Protection
- Over-Charge protection
- Automatic switching Input voltage 100-240v AC 50/60hz
- Output voltage range 15v, 16v, 18v, 18.5v, 19v, 19.5v, 20v, 22v DC 90w Max
- Support for all common Dell, IBM, Lenovo, HP, Advent, Acer, Fujitsu, Sony, Hitachi, Toshiba and many other laptops.

## SPECIFICATIONS

- Input Voltage: 100-240v ~ 50Hz
- Output: 15v, 16v, 18v, 18.5v, 19v, 19.5v, 20v, 22v DC 90w Max
- USB Output: 5v DC 500mA

Temperature & Humidity Specifications:  
Normal Operating Temperature: 0C to 40C  
Normal Humidity: 20% - 80%

Storage Operating Temperature: -10C to 70C  
Storage Humidity: 10% - 90%

## CONNECTION CHART

Connections contain internal resistance that automatically select voltage. Do not use wrong connector for a different voltage as this may result in damage to your laptop.

T1	5.5x2.1 (19v)	ACER / Leveno / NEC / Compaq
T2	5.5x2.5 (19v)	DELL / HP / Compaq / Acer / Gateway / IBM / Asus / Lenovo / NEC Toshiba / Advent
T3	5.5x2.5 (16v)	IBM
T4	4.8x1.7 (18.5v)	HP / Compaq
T5	6.0x1.0 (16v)	Fujitsu / Sony / Panasonic
T6	6.0x4.3 (19.5v)	Sony
T7	6.3x3.0 (15v)	Toshiba
T8	5.0x3.5 (19v)	

## OTHER CONNECTIONS AVAILABLE ON REQUEST

Contact: [helpline@lloytron.com](mailto:helpline@lloytron.com)

T9	7.4x5.0 (19.5v)	Dell
T10	7.4x5.0 (18.5v)	HP
T11	7.9x5.5 (20v)	IBM / Lenovo

## INSTRUCTIONS

Before using the charger please check you Notebook/Netbook manufacturer's user manual to ascertain the correct voltage. Please also check the connection chart for tip selection.

Mains Charging:

1. Choose the correct tip for your Notebook/Netbook (Check the connection chart)
2. Connect the AC Adapter to the main charging unit
3. Plug the AC adapter into a mains wall socket
4. The correct Voltage will automatically be selected from 15 / 16 / 18 / 19 / 19.5 / 20 / 22 / 24 V . The voltage will automatically lock to the chosen output when the laptop is plugged in depending on the connector chosen.
5. Plug the charger into your Notebook/Netbook and it will power and charge immediately.



**IMPORTANT SAFEGUARDS  
AND PRECAUTIONS**



### IMPORTANT SAFEGUARDS

When using electrical appliances, basic safety precautions should always be followed, including the following:

1. Read all the user instructions.
2. For indoor use only.
3. Observe correct polarity.
4. Do not short circuit terminals.
5. Do not use for notebooks that require a higher power output than 90w.
6. Do not use in damp or moist areas, or near water.
7. Choose the correct connection tip for the correct voltage and socket.
5. Save these instructions

### WARNING:

Please make sure correct polarity of the DC connector before use.

Centre Pin is ALWAYS positive. DO NOT USE if your laptop requires Centre Pin to be Negative.



**CAUTION**  
RISK OF ELECTRIC SHOCK



### DO NOT OPEN



The Lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure: that may be of sufficient magnitude to constitute a risk of electric shock to person.



### CAUTION!

This appliance is not intended for use by persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance, by a person responsible for their safety.

## WEEE / ENVIRONMENTAL PROTECTION



### Disposal of Electrical and Electronic Equipment

Do not dispose of this product with household waste. For the proper treatment, recovery and recycling please take this product to the appropriate waste collection point. If you are unsure where this may be, please contact your local authority.

Improper disposal may be harmful to the environment.

## 1 YEAR GUARANTEE

**NOTE: THESE STATEMENTS DO NOT AFFECT YOUR STATUTORY RIGHTS AS A CONSUMER.**

This product has been manufactured under the strictest of quality control procedures, and using the highest quality of materials, to ensure excellent performance and reliability. It will give very good and long lasting service, provided it is properly used and maintained.

The product is guaranteed for one year from the date of original purchase. If any defect arises due to faulty materials or poor workmanship, the faulty product must be returned to the original place of purchase. Refunds or replacement is at the discretion of the store.

LLOYTRON plc offer this one year guarantee under the following conditions:

- 1) The product must be returned to the retailer with original proof of purchase.
- 2) The product must be installed and used in accordance with the instructions contained in this operating manual.
- 3) It must be used only for domestic purposes.
- 4) It does not cover wear and tear, malicious damage, misuse, neglect, inexpert repairs or consumable parts.
- 5) Lloytron plc has no responsibility for incidental or consequential loss or damage.
- 6) Lloytron plc are not liable to carry out any type of servicing work, under the guarantee.
- 7) Valid in the UK and Eire only.



Made for Lloytron PLC, Leigh, Lancashire, UK WN7 3XH

For details of other great Lloytron products,  
please see our website:

[www.lloytron.com](http://www.lloytron.com)