



Manual

**USN90UCB
Art. 88882137**

Universal Notebook adapter



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1 General information

1.1 Introduction

Thank you for purchasing our Sinan Universal Notebook Adapter.

For your safety and the satisfaction of using this product, please read this manual carefully before installation or using.

1.2 Scope of delivery

1x Notebook adapter 90W

1x Power cord 230V

10x Tip

1x Manual (German)

2 Safety

2.1 Intended Use

2.1.1 Application area and local requirements

This product is only for indoor use as power supply for Notebooks

Don't use or store this product close to water or in humid rooms.

Don't use this product close to heat. The additional heat could cause overheating or fire.

2.1.2 Disposal

Don't put this product to the general trash.

This product can be disposed at the intended places without any costs.



2.2 General notice

Please read this manual before installing or using.

Please keep this manual and pass it if the product will be passed.

Please follow the introductions and warnings.

The non-observance of this manual can cause defects, violation or death.

We assume no liability for damages or violations caused by the non-observance of this manual.

2.3 Danger and protection

Don't place the product close to heatings.

Don't operate the products with wet or humid hands.

Don't pull out the power supply by pulling the cable.

Don't use repaired or defective cables.

In case of strange noise or smell, pull out the power supply immediately.

Don't open the product or the power supply.

Please take care that all cables will be connected stable.

Take electric products away from children.

Don't pull out the power supply with wet or humid hands.

Pull out the power supply from socket in case of longer non-use.

Maintenance and cleaning only by authorized personnel.



3 Technical data

3.1 Electric installation

This device has a full range input for use all over the world

Input voltage 90-264V AC, 47-63Hz

3.2 Efficiency

Efficiency at 110V and 230V/ 4,7A >83%

3.3 Output voltage

Output max. 20V
 USB 5V 2,1A

3.4 Safeties

Over current protection

Over voltage protection

3.5 Environment

Temperature	Operation	0 to +40 °C
	Storage	-40 to +55 °C
Humidity	Operation	20% to 85%
	Storage	10% to 95%

3.6 Life-time

MTBF > 50.000 hrs

3.7 Dimension

Size: 133 x 60 x 30 mm (l/w/h)



4 Implementing

1. Take out the adapter and check the package content for completeness or damages.

In case of something is missing or damaged please contact your local dealer for replacement.

Please keep the original package for shipping in case of warranty case.

Please connect the adapter to the grid after connecting all other devices.

2. The device consists of a power adapter and 10 tips.

The tips are the adapter between the power supply and your Notebook. You determine the right connector to your Notebook and the right voltage by choosing the right tip.

In case of precariousness by choosing the right tip, please ask your local dealer or our support. **The wrong choice of the tip can damage your Notebook.**

3. Choice of the right tip.

Look at the manual or bottom side of your notebook for the required voltage. Now look at the chart at side 11 for useable tips for your notebook brand. Take the tip with the right voltage and try to insert it into your notebook carefully.

The tip must fit easily into your notebook.

4. Clip the tip on the cable of your adapter.

Don't forget that the tip adjust the output voltage.

Check again if you choose the right tip.

5. Insert the cable with the tip into your notebook.

In case the insertion is not easily, check the choice of the right adapter again.

6. Connect the adapter to the grid when all other connections will be made.

Please use only the original power cord. In case of broken or damaged cable, please replace it by an approved power cord from your local dealer.



7. The Notebook is ready to start

Please note that the notebook adapter is in Stand-By mode to start your Notebook by pushing the power button as long he is connected to the grid. In case you want to disconnect the Notebook totally from the grid, please pull out the power plug from the grid.

Please note that the Notebook adapter consumes electricity and produces heat in Stand-By mode. Impounded heat can cause fire.

If you'll buy a new Notebook you can still use your Adapter by changing the tip according the new Notebook. In case of questions for that ask your local dealer or our support.

5 FAQ

5.1 Troubleshooting

Fault	Possible cause	Action
The Notebook won't power on	Battery deeply discharged	Keep your Notebook powered off (closed) and charge it by using the adapter as specified before.
	Battery defective	Change battery
The Notebook won't charge	Adapter not connected	Connect Notebook and Adapter as specified before.
	Power cord not connected	Check if the Adapter is connected to the grid
	Power cord defective	Replace the power cord against an approved power cord
	Socket-outlet defective	Let the socket-outlet check by an expert

Please, always pull out the power plug if you are changing tips or handle any connector of the adapter.

Testing the socket-outlet can cause an electric shock.

Working on socket-outlets has always to be done by an expert.



6 Maintenance

This device needs no maintenance which requires the opening of the device or the power supply.

To get a steady and smooth function, please remove dust from time to time.

Don't use a wet or moist rag to remove dust. Hazard of electric shock.

Do not open the case of the adapter in any circumstances. You will risk your life by an electric shock, destroy any components and lose your warranty claim.

7 Disposal

Please dispose your product by using the special discharge point for electronic waste. Please ask your municipality or disposal company in case of further questions.





8 Warranty terms

Inter-Tech grants 12 months warranty by proper use up from the date of purchase.

In case of warranty please contact your local dealer or the dealer from which you bought the product.

We will grant no warranty by:

- Missing or damaged warranty seal,
- Negligent behavior,
- Improper use,
- Nonobservance of the manual,
- External violence,
- Acts of god,
- Damages caused by manipulation, upgrading, updating or reconstruction of hardware or software
- Damages caused by other harm,

In case of data loss Inter-Tech will only be liable at wanton negligence or deliberate intention or, in all other cases, only for the recovery of data from a continuous, daily backup. Inter-Tech does not assume liability for all other matters.

Please look also at our complete warranty terms on our website.

9 Contact

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This product complies to the directives 2004/108/EG, 2006/95/EG, 2011/65/EG and 2009/125/EG of the council of the European Parliament and the Council of the European Union.

The declaration of conformity will be shown on our website:

Service & Support/ Downloads/ Declarations

10 Table of available and included Tips

Tip	Voltage	Dimension	Suitable for	Included	Optional
M1	15V	6,3x3,0x12	Toshiba, NEC	+	
M2	16V	5,5x2,5x12	IBM/ Lenovo		+
M3	16V	6,5x4,4x10	Fujitsu, Sony		+
M4	18,5V	4,8x1,7x12	HP/ Compaq	+	
M4B	19V	8x1,7x12	HP/ Compaq		+
M5	19V	5,5x2,5x12	Acer, Asus, Delta Gateway, IBM, NEC, Toshiba	+	
M6	19V	5,5x3,0x12	Samsung		+
M7	19V	5,5x2,1x12	Acer, LiteOn, NEC	+	
M8	19,5V	6,5x4,4x10	Sony	+	
M9	19,5V	7,4x5,0x12	Dell		+
M10	20V	3 Holes	Dell		+
M11	20V	7,9x5,4x12	IBM/ Lenovo	+	
M12	18,5V	7,4x5,0x12	HP/ Compaq	+	
M14	18,5V	Oval	HP/ Compaq		+
M15	19V	5,5x1,7x12	Acer, LiteOn	+	
M19	19V	2,5x0,7x10	Asus		+
M20	19V	4,0x1,7x12	HP		+
M21	19,5V	Octagonal	Dell		+
M22	19V	3,0x1,0x10	Samsung		+
M23	19,5V	4,5x3,0x10	Dell		+
M24	19,5V	4,0x1,7x12	HP		+
M25	20V	5,5x2,5x12	Lenovo	+	
M26	19V	4,0x1,35x10	Asus		+
M27	19V	4,5x3,0x10	Asus		+
M28	20V	11x4,5x11	Lenovo	+	
M29	19,5V	4,5x3,0x12	HP Envoy		+
M30	19,5V	4,8x14,7x10	HP Envoy		+

