



PWI-AC90



PWI-AC120

User's Manual

**Prudent Way Universal Notebook & LCD AC PowerAdapter
PWI-AC90, PWI-AC120**

Prudent Way Universal Notebook and LCD AC Power Adapter User's Manual
Model: PWI-AC90, PWI-AC120

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Thank you for choosing Prudent Way Universal Notebook & LCD AC Power Adapter. Please take the time to read all instructions in this user manual carefully before using the Adapter. Please note that failure to follow the proper instructions may cause fire, electric shock, injury, or damage to electronic devices.

We sincerely hope that you find this quality Adapter provides you with many years of good service.

1. Major Features

- 100-240V AC input provides worldwide power conversion capability.
- Adjustable 12-24V output design fits specific notebook models and LCDs needs.
- 11 pieces of tip connector for use with most major LCD and notebook brands such as IBM, Dell, Toshiba, Compaq, Asus, Acer, HP, Sony and More¹.
- Extra USB port built in for iPODs, PDAs, Cell Phones, MP3 Players and more*.
- RoHS compliancy is friendly to environment.
- High efficiency & full power protection.

2. Safety & Warning

Please read the following information carefully before using the power adapter!

- ! This power adapter is for indoor use only.
- ! This power adapter is for use with information technology equipment.
- ✗ DO NOT disassemble this Adapter. There are HAZARDOUS VOLTAGES inside the power adapter. Disassembling the Adapter may expose you to high voltage or other risks. Incorrectly reassembly may cause electronic shock the next time when the device is used. Warranty will be voided by doing so.
- ✗ DO NOT expose the Adapter and related information technology equipment to water or moist, dusty or extreme temperature environment such as direct sunlight, heat sensitive material or any heat generated sources such as a radiator, stove, or car.
- ✗ DO NOT block the ventilation. The ventilation is designed to protect the Adapter from overheating.
- ✗ DO NOT place the Adapter in a built-in installation, or on a surface such as a bed, sofa, or rug.
- ✗ DO NOT use wet hands to plug or unplug the power cord to avoid electric shock.
- ✓ DO follow all warnings and instructions marked on the product.
- ✓ DO grab the plug instead of cord when you remove the power cord from the wall outlet.
- ✓ DO remove any power sources from this Adapter before attempting any cleaning to avoid electrical shock. Use a dry cloth only.
- ✓ DO place the power cable properly so it will not be stepped on or tripped over.
- ✓ DO unplug the Adapter and contact the dealer from which it was purchased when:
 - The Adapter is damaged.
 - The Adapter does not perform properly.
 - The Adapter has been exposed to water.

3. Contents

	PWI-AC90	PWI-AC120
AC power adapter	90-watt	120-watt
11 tip connectors	✓	✓
Input and output cables	✓	✓
User manual	✓	✓

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4. Using your Prudent Way Universal AC Power Adapter For Notebook & LCD

For notebook computer:

- Step 1. Read the Safety and Warning information above.
- Step 2. Please refer to your notebook computer user manual or check on the back of the notebook computer to find the correct input voltage requirement for your notebook computer. Select proper input voltage (12V, 15V, 16V, 18V, 19V, 20V, and 24V) on the Adapter to fit your notebook computer need (Picture 1).
- Step 3. Choose correct tip connector to fit your notebook power socket and connect it to the Adapter output cable (Picture 2).
For more detail info about tip selections, please visit <http://www.prudentway.com> check UNIVERSAL ADAPTERS.

Note! Each tip connector has a special 2-pin design with only one pluggable direction to make sure you do not plug the tip connector to the wrong direction on the adapter output cable and cause damage to your notebook. If you experience difficulty to plug the tip connector to the holes on the output cable, please check if you plug it to the wrong direction.

- Step 4. Connect the tip connector to the power socket of your notebook (Picture 3).
- Step 5. Connect the Adapter input power cable to the AC socket of the Adapter (Picture 4). Then plug the other end of AC power cable to the wall outlet (Picture 5).
- Step 6. Turn on and use your notebook.

For devices with USB interfaces such as cell phones, MP3, iPODs and PDAs*:

- Step 1. Read the Safety and Warning information above.
- Step 2. Please connect the USB Type A cable provided by your USB device company to the USB port of the Adapter.
- Step 3. Follow Step 5 as stated above.
- Step 4. Turn on and use your USB device.

Picture 1



Picture 2



Picture 3



Picture 4



Picture 5



5. For LCDs: Please follow the same steps as you use for notebook computer. Most LCDs use 12V.

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5. Product Specification

	PWI-AC90	PWI-AC120
FEATURES		
Output Power (Max.)	90W	120W
Overload Protection	Yes	Yes
Short Circuit Protection	Yes	Yes
Line Regulation	+/- 5%	+/- 5%
Load Regulation	+/- 5%	+/- 5%
Switching Mode	Universal switching-mode power adapter for notebook and LCDs	Universal switching-mode power adapter for notebook and LCDs
Special Connectors	11 pieces tip connector including 3-pin connector for Dell notebook*, 4pin TOSHIBA & IBM.	11 pieces tip connector including 3-pin connector for Dell notebook*, 4pin TOSHIBA & IBM.
Efficiency	> 80% (TYP)	> 80% (TYP)
DIMENSIONS		
Unit Size	5.25" x 2.5" x 1.44"	6.125" x 2.44" x 1.44"
Net Weight	1 lb	1.1 lb
OUTPUT		
Output Voltage (0/+8V No Load)	12V/15V/16V/18V/19V/20V/24V DC12V-24V	12V/15V/16V/18V/19V/20V/24V DC12V-24V
	USB Port: 5V	USB Port: 5V
PWI-AC 90: Output Voltage (-0.6/+0.6V @rating load) PWI-AC120: Output Voltage (+/- 5% @typical +/- 0.8V)	12V/15V/16V/18V/19V/20V/24V DC12V-24V	12V/15V/16V/18V/19V/20V/24V DC12V-24V
	USB Port: 5V	USB Port: 5V
Output Current	12V/15V/16V/18V/19V/20V@4.5Amp(max) 24V @ 3.75AMP (max)	12V/15V/16V/18V/19V/20V@6Amp(max) 24V @ 5AMP(max)
	USB Port: 2 AMP @ 5V	USB Port: 2 AMP @ 5V
INPUT		
Rated Input Voltage (50 - 60 Hz)	AC120V or AC230V	AC120V or AC230V
Vibration Input Voltage Range (47-63Hz)	AC100V-240V	AC100V-240V
Input Rated Current	1.8AMP	1.8AMP
Input Power	150VA	150VA
ENVIRONMENTAL		
Operating Temp.	0 to 40°C	0 to 40°C
Humidity	20% to 80%	20% to 80%
RoHS Compliant	Yes	Yes

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For feedback about this product, please contact

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