



InWin A45 A Series Power Supply with High Compatibility and Reliability User Manual

[Home](#) » [InWin](#) » InWin A45 A Series Power Supply with High Compatibility and Reliability User Manual 

InWin A45 A Series Power Supply with High Compatibility and Reliability User Manual



Contents

- [1 Product Story](#)
- [2 Features](#)
- [3 Specifications](#)
- [4 Package Contents](#)
- [5 Cable Information](#)
- [6 Installation](#)
- [7 Troubleshooting](#)
- [8 Notices and Warranty](#)
- [9 Documents / Resources](#)
- [10 Related Posts](#)

Product Story

Quality Power, Great Performance, Low Noise

The InWin A Series is a power supply with high compatibility and reliability, it meets the 80 PLUS® certification for 230V. Equipped with powerful single +12V rail design and multi-protection safeguards. The A Series provides great performance at a good price.

Features

• 80 PLUS® 230V EU Standard Certified

The A Series is an 80 PLUS® 230V EU Standard Certified power supply. It delivers up to 85% efficiency during normal use, generating less heat and effectively maintain the power supply’s stability.

• Smart Thermal Control to Balance Cooling and Noise

The A Series utilizes a smart temperature controlled 120mm fan. It automatically detects heat to adjust the fan speed accordingly. It achieves silent operation and excellent thermal performance.

• Single +12V rail design for High-End Systems

Powerful single +12V rail design, perfect for high-end components or overclocking.

• 3.3V DC to DC Design

DC to DC converter design provides superior dynamic response and supports a foundation for greater system stability.

• Multi-Protection Safeguards (SCP, OVP, UVP, OPP)

The A Series comes with plenty of safety protection safeguards against short circuits, over-and-under voltages and over-power. These precautions are to ensure quality and safe power usage.

Specifications

Model	A45/ A55/ A65
Part Numbers	IW-A450/ IW-A550 / IW-A650
Total Power	450W/ 550W/ 650W
Material	SECC
Type	ATX12V V2.4
PFC	Active PFC
Efficiency	80 PLUS® 230V EU Standard (Up to 85%)

MTBF (Hours)	> 100,000 hrs	
AC Input	200 – 240Vac., 50-60Hz	
Fan	120mm Silent Fan	
Operating Temperature Range (°C)	0~40 °C	
Full Protection	OVP/ UVP/ SCP/ OPP	
Safety Certifications	TUV/ CE/ RCM	
Dimensions (L x W x H)	140 x 150 x 86mm	
Package Dimensions (L x W x H)	240 x 185 x 98mm	
Net Weight	1.48 kg/ 1.57 kg/ 1.6 kg	
Gross Weight	1.84 kg/ 1.93 kg/ 2.0 kg	
Warranty	3 Years	
Connectors	20+4 Pin Motherboard	1
	8 (4+4) Pin CPU	2
	8 (6+2) Pin PCI-E	2

	4 Pin Peripheral	3
	SATA	6
	Floppy	1

* InWin products comply with RoHS regulations.

* Specifications may vary based on different regions.

Model	AC INPUT	200-240Vac., 50-60Hz					
	DC OUTPUT	+12V	+5V	+3.3V	-12V	+5VSB	Total Power
A45	Max. Output Current	36A	20A	20A	0.3A	3A	450W
	Max. Combined Power	432W	110W		3.6W	15W	
A55	Max. Output Current	42A	20A	20A	0.3A	3A	550W
	Max. Combined Power	504W	110W		3.6W	15W	
A65	Max. Output Current	50A	20A	20A	0.3A	3A	650W
	Max. Combined Power	600W	110W		3.6W	15W	

Package Contents

1. A Series Power Supply Unit x1 (A45/ A55/ A65)



2. QR Code Card x 1



3. Power Cord x 1



4. Mounting Screws x 4

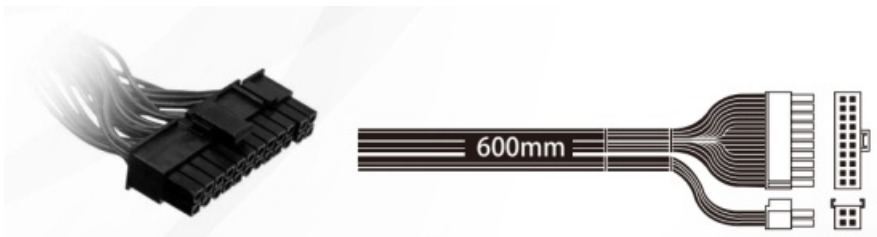


5. Cable Ties x 8



Cable Information

24 (20+4) Pin Motherboard x1



8 (4+4) Pin CPU x1



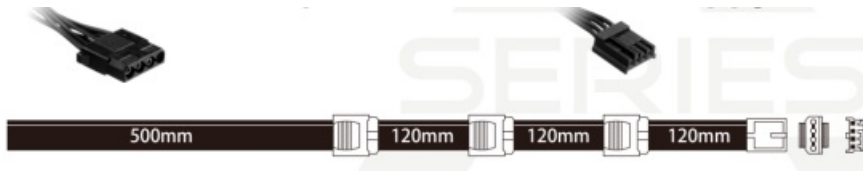
8 (6+2) Pin PCI-E x1



SATA x2



4 Pin Peripheral x1 Floppy x1



Installation

1. Make sure the power supply's AC power cable is not connected before installation.
2. Place the power supply unit into the space provided in the case and secure the power supply unit with the screws.
3. Connect 24-pin power to the 24-pin socket on the motherboard.
4. Connect the 8-pin + 12V cable to the motherboard.
 - A. If your motherboard has an 8-pin + 12V socket, connect the 8-pin cable directly to your motherboard.
 - B. If your motherboard has a 4-pin socket, detach the 4-pin from the 8-pin cable, and plug the 4-pin cable directly to your motherboard.
5. Connect the peripheral cables, PCI-Express cables, and the SATA cables to the appropriate socket.
6. Make sure all the cables are tightly connected and save any unused modular cables for future usage.
7. Connect the AC power cord to the power supply and turn it on by switching the power button to the "I" position.

Troubleshooting

These troubleshooting points will help you diagnose and solve problems with your power supply if the unit fails to operate properly:

1. Please make sure the power supply and power cord are connected properly.
2. Please make sure the power cord is plugged into the power socket.
3. Please make sure the power supply I/O button is switched to the "I" position.
4. Please check if all the connectors (motherboard and peripheral) are connected properly.
5. Please allow a 5-second interval before turning the power on again when power supply is switched off manually.
6. If you are still experiencing difficulties, please contact your local distributor for RMA support.

Notices and Warranty

Notices

1. Please use the anti-static precautions while installing the components to prevent damage and injury.
2. Install in accordance with the user manual's instructions and safety warnings.
3. High voltages are present in the power supply. Do not open the power supply case. Any modifications may damage the product and may place the user at risk.
4. Do not use the power supply if it has been wet or damaged to avoid electric shock or injury.
5. Do not install the power supply near any heat sources such as: radiators, heat registers, or other apparatus that

produces heat.

6. Do not insert any objects into the open ventilation or fan grill area.
7. Use only InWin supplied cables. Other cables might not be compatible and could cause serious damage to your system and power supply.
8. Do not modify the cables and/or connectors included with the power supply.

Warranty

1. InWin provides a 3-year warranty toward the product. The warranty covers malfunctions or flaws before customer use. The warranty starts from your initial purchase (according to the date on your receipt). Please note that we do not honor the warranty for the product if it is not purchased personally or if it is purchased through an unauthorized distribution channel.
2. This limited warranty shall not apply if the defect was caused through any of the following:
 1. Abuse and misuse,
 2. Operation outside of product specification,
 3. Unauthorized service or modification,
 4. Any and all alteration of the product.
3. For more detailed warranty information, please visit the InWin retail website at www.in-win.com.
4. The actual product is subject to change without prior notice. In Win Development Inc. reserves the right to make final modifications.

www.inwin.com

Documents / Resources



[InWin A45 A Series Power Supply with High Compatibility and Reliability](#) [pdf] User Manual
A45, A55, A65, A Series Power Supply with High Compatibility and Reliability