Rosewill®

ARC / ARC-M

USER Manual

ARC450 / M450
ARC550 / M550
ARC650 / M650
ARC750

Contents

Introduction

Rosewill is the platform of choice for avid PC gamers and the Rosewill Arc Power Supply series is built to the highest quality standard and delivers the ultimate performance for enthusiasts.

Product Features

- 80 Plus Bronze certified to deliver over 85% efficiency
- ATX 12V V2.3 ready, supports to EPS 12V 2.92 and backwards compatible with ATX 12V 2.01
- Cable management modular (ARC-M Series)
- Active Power Factor Correction (PFC) with PF value of 0.99
- Maximum Protection: Over-voltage and over-current protection, short circuit protection, under-voltage protection, over power protection
- Long lasting, Ultra-quiet 120mm hydraulic fan
- Extra-long cables support full size gaming chassis
- Crossfire and SLI support
- MTBF >100,000 hours at 80% load, ambient temperature at 25℃

Package Contents

ARC Series	ARC-M Series
• ARC Power Supply Unit x1 • User manual x1 • AC power cord x1 • Cable tie x1 • Mounting screws x4	• ARC-M Power Supply Unit x1 • Modular cable set x1 • User manual x1 • AC power cord x1 • Cable tie x1 • Mounting screws x4

Electronic Specifications

Model No. : ARC450/M450

Model No.	AC Input		DC Output	+3.3V	+5V	+12V	-12V	+5VSB
	Voltage	Current						
ARC 450 ARC M450	100V-240V	10A-5A	Max Output Current	20A	15A	37A	0.5A	2.5A
			Max Combined Wattage	80W		444W	6W	12.5W
			Total Output	450W				

Model No. : ARC550/M550

Model No.	AC Input		DC Output	+3.3V	+5V	+12V	-12V	+5VSB
	Voltage	Current						
ARC 550 ARC M550	100V-240V	10A-5A	Max Output Current	20A	20A	45.5A	0.5A	2.5A
			Max Combined Wattage	100W		546W	6W	12.5W
			Total Output	550W				

Model No. : ARC650/M650

Model No.	AC Input		DC Output	+3.3V	+5V	+12V	-12V	+5VSB
	Voltage	Current						
ARC 650 ARC M650	100V-240V	10A-5A	Max Output Current	20A	20A	54A	0.5A	2.5A
			Max Combined Wattage	100W		648W	6W	12.5W
			Total Output	650W				

Model No. : ARC750

Model No.	AC Input		DC Output	+3.3V	+5V	+12V	-12V	+5VSB
	Voltage	Current						
ARC 750	100V-240V	10A-5A	Max Output Current	20A	20A	62.5A	0.5A	2.5A
			Max Combined Wattage	100W		750W	6W	12.5W
			Total Output	750W				

Connectors

ARC Series

Cable						
	20+4 MainBoard PIN	+12V EPS 4+4 PIN Connector	6+2 PIN PCI-E Connector	SATA Connector	4 PIN Molex Peripheral Connector	4 PIN Floppy Connector
ARC450	1	1	1	4	3	1
ARC550	1	1	2	5	4	1
ARC650	1	1	2	6	4	1
ARC750	1	1	4	6	4	1

ARC-M Series

Cable						
	20+4 MainBoard PIN	+12V EPS 4+4 PIN Connector	6+2 PIN PCI-E Connector	SATA Connector	4 PIN Molex Peripheral Connector	4 PIN Floppy Connector
			Modular			
ARC-M450	1	1	1	4	3	1
ARC-M550	1	1	2	5	4	1
ARC-M650	1	1	2	6	4	1

Installation

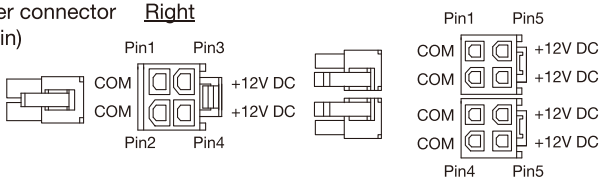
If replacing an existing PSU in a system, you will first need to remove the old PSU. Please proceed as follows:

1. Disconnect the AC power cord from your existing power supply unit
2. Disconnect the power supply from all the components in the PC, make sure that all the connectors are unplugged.
3. Remove the four screws from the rear of the case that hold the old power supply to the chassis, and then remove the old power supply unit form case.

Installing the new Arc series power supply:

1. Make sure the I/0 switch of the PSU is at off “O” position.
2. Install the Power supply unit in the appropriated space in the PC case and secure it by screwing the four screws into the rear of the power supply.
3. Connect the 20+4 pin main power cable to the motherboard 20/24pin socket. The detachable 4 pin section of the connector can be separated to support a 20 pin connection or section together to support a 24 pin socket.
4. Connect the 4+4 PIN (8 PIN) power cable to the mainboard. If your mainboard supports only 4 PIN jack, connect only the right side of the connector to the mainboard.

+12V CPU power connector (EPS 8Pin/4+4Pin)



5. If your are using a graphics board with a 6 PIN/8 PIN connector please connect the respective connector to the socket on the board.
   If your graphics supports more than one socket, please connect the respective connector to the socket on board.
6. Connect the SATA or Peripheral 4 PIN Molex connectors to the hard disk or SSDs or optical drive.
7. Connect any others internal components that require power to the appropriate connector.
8. Make sure all the cables are securely seated
9. Connect the AC power cord into the back of the power supply and Switch on I/O switch at input “I” position.
10. Your PSU is now connected and ready.

Safety and EMI Certification

Safety & Warning

- Due to the high voltage inside the power supply, do not attempt to remove the cover of power supply. The warranty will be void if the cover is removed.
- Do not insert any objects into the open ventilation or fan grill area of the power supply.
- Do not store the power supply in high humidity and high temperature environment,
- Do not plug or unplug the power cord with wet hand.

Troubleshooting

If you installed the new power supply and the system is not working properly, please check the following:

- Make sure the AC power cord is plugged correctly into PSU inlet socket and power switch is at input "I" position.
- Make sure the wall socket, extension power cord, power strip or surge protector in use, fully functional and wall power switch turned on
- Make sure that all the connectors from power supply are correctly plugged into the mainboard.
- Make sure there are no short circuits within the systems that could result from defective hardware or misplaced connectors
- If your are not sure take all parts out of the housing and only leave the mainboard inside together with the power supply. Disconnect all plugs, check them and then connect them again to the respective sockets.

Information

Thank you for purchasing a High-Quality Rosewill Product.
Please register your product at : ***www.rosewill.com*** for complete warranty information and future support for your product.If you have any question while using our products, please feel free to contact us at ***techsupport@rosewill.com***

Support Phone Number: 800-575-9885
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