Sharkoon

WPM

Manual V2

WPM V2 SERIE

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Dear Customer,

Congratulations and thank you for your purchase of this high-quality Sharkoon product. To ensure a long service life, and full functionality of the product, we recommend that you read this manual thoroughly.

We hope you enjoy our product!
SHARKOON Technologies

1. Features

	High efficiency: This power supply has an efficiency of over 80%. The efficiency is the ratio of energy input and output performance in percent. The closer this value is to 100%, the less power dissipation produced by the power supply.
	Cable management: The PSU features a modular cable system, ensuring that required cables are properly secured.
	Active PFC function: This power supply operates with active power supply correction (PFC).
	140 mm fan: 140 mm fan provides a stronger airflow at a lower revolution speed, thus effectively reducing operating noise.
	PCIe connectors: This power supply is equipped with two 6+2-pin PCIe connectors.
	ErP ready: Standby energy consumption, max. 0.3W

To prevent the risk of electric shock, do not open the power supply case. No user-exchangeable parts are inside. Refer service and maintenance to authorized Sharkoon personnel. Warranty is void under unauthorized attempt to open the power supply housing
Suitable for indoor or office use only.
Keep the power supply away from humidity!

2. Specifications

2.1 Overview

Model No.	WPM400 V2				
Input (AC)	Input voltage		Current	Frequency	
	100 - 240 V ~		6 A	60 - 50 Hz	
Output (DC)	+3.3 V	+5 V	+12 V	-12 V	+5 V_{SB}
Max. Output Current	16 A	15 A	30 A	0.3 A	2.5 A
Max. Combined Power	100 W		360 W	3.6 W	12.5 W
Total Power	400 W				

Model No.	WPM500 V2				
Input (AC)	Input voltage		Current	Frequency	
	100 - 240 V ~		8 A	60 - 50 Hz	
Output (DC)	+3.3 V	+5 V	+12 V	-12 V	+5 V_{SB}
Max. Output Current	18 A	16 A	38 A	0.3 A	2.5 A
Max. Combined Power	110 W		456 W	3.6 W	12.5 W
Total Power	500 W				

Model No.	WPM600 V2				
Input (AC)	Input voltage		Current	Frequency	
	100 - 240 V ~		9 A	60 - 50 Hz	
Output (DC)	+3.3 V	+5 V	+12 V	-12 V	+5 V_{SB}
Max. Output Current	20 A	17 A	46 A	0.3 A	2.5 A
Max. Combined Power	120 W		552 W	3.6 W	12.5 W
Total Power	600 W				

Model No.	WPM700 V2				
Input (AC)	Input voltage		Current	Frequency	
	100 - 240 V ~		10 A	60 - 50 Hz	
Output (DC)	+3.3 V	+5 V	+12 V	-12 V	+5 V_{SB}
Max. Output Current	22 A	18 A	54 A	0.3 A	2.5 A
Max. Combined Power	130 W		648 W	3.6 W	12.5 W
Total Power	700 W				

2.2 Temperature range and humidity

Operation	0 to +50 °C	20 – 90% rel. humidity, non-condensing
Storage	-20 to +70 °C	5 – 95% rel. humidity,

2.3 Temperature range and humidity

This PSU works with 100 to 240 V (47/63 Hz) and is equipped with the following protection functions:

1. Surge protection:
   The PSU unit has a large surge protector, which is active in the following voltages:

+5 V	7 V
+3,3 V	4,3 V
+12 V	15,6 V

2. Short circuit protection:
   The PSU is designed with a short circuit protection to prevent damage of the power supply components. Main power will be shutdown when a short circuit occurs. The PSU will return to normal after the short circuit has been removed and the main power switch has been turned off and back on again, with a minimum cycle pause of 2 seconds.

3. Overload protection
   The PSU has an overload protection that shuts off the power supply at 110%-150% overload.

2.4 Safety standards

Our power supply has been certified to comply with CE and CB regulations.

2.5 Warranty period

For this power supply unit we provide a 2 year warranty.

3. Parts and accessories

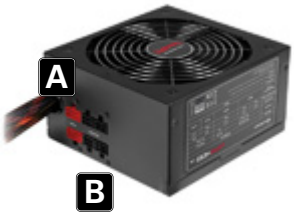
(A) Power supply “WPM400 V2”, “WPM500 V2”, “WPM600 V2” or “WPM700 V2“
(B) Power cable
(C) Set of modular cables:
2x PCIe cables with 1x 6+2-pin connector each
2x SATA cables with 3x 15-pin connectors
1x cable with 3x 4-pin peripheral connectors
1x cable with 4-pin peripheral connectors and 1x Floppy connector
(D) Set of mounting screws (4 screws)
(E) Cable bag
(F) Data sheet

Note:
If you are missing any of the items listed above, please contact our customer service immediately:
support@sharkoon.com (Germany and Europe)
support@sharkoon.com.tw (international).

4. The modular system of the PSU

A special feature for the connection of peripheral devices is the so-called cable management. Thanks to this modular system only the really required cables need to be connected thus keeping the case tidy and optimizing the airflow within.

4.1 The terminals on the PSU

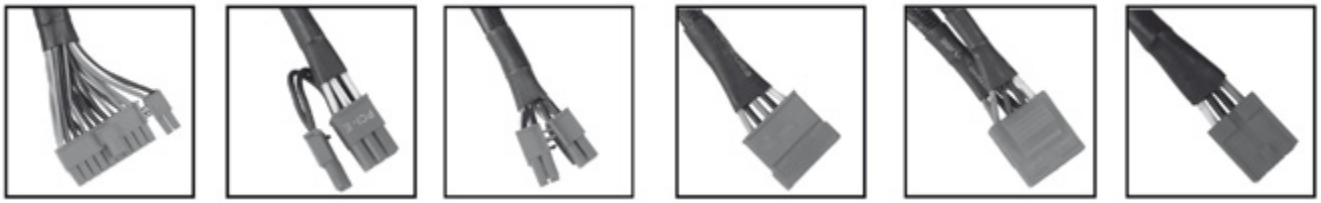


(A) 2x 6+2-pin terminals for PCIe connectors (red)

(B) 4x 6-pin terminals for SATA and peripheral device connectors (black)

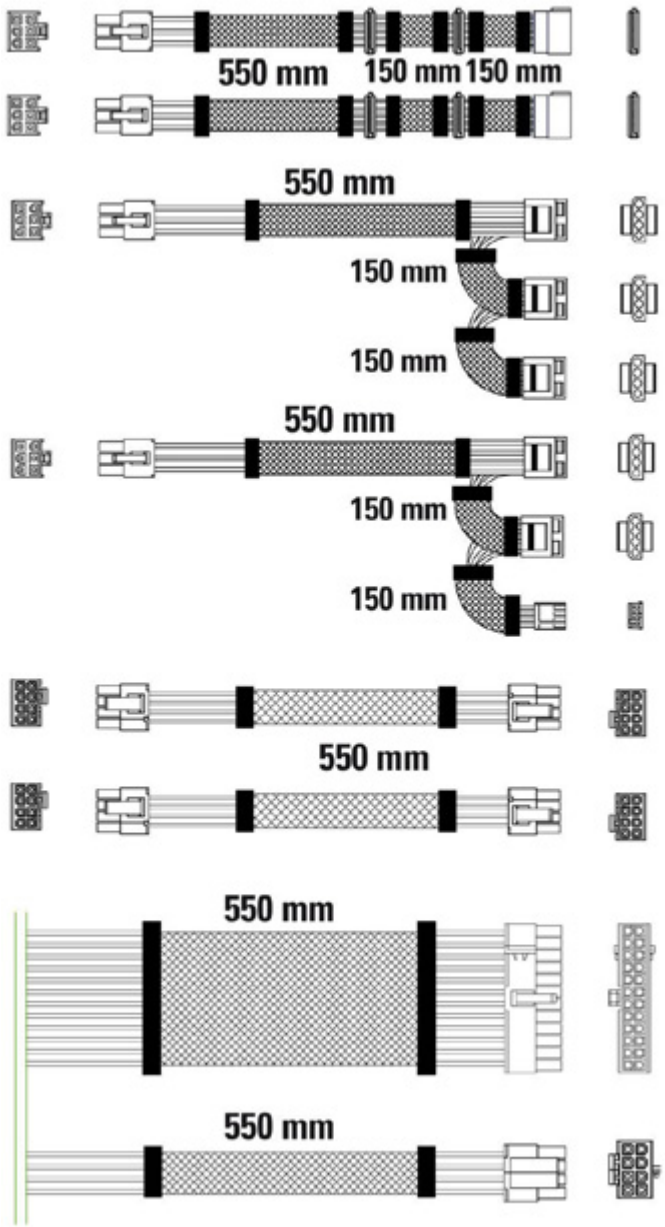
4.2 The modular cables

Besides the 20+4-pin ATX connector cable, a 4+4-pin P8 connector cable and a 6+2-pin PCIe cable are solde red to the PSU. The PSU is delivered with an extensive set of modular cables:



1x 20+4-pol. mainboard connector | 2x 6+2-pol. PCIe connector | 1x 4+4-pol. power connector | 6x SATA power cable | 5x 4-pol. cable | 1x Floppy power cable

4.3 Cable lengths



5. Installation

Remove the previously installed PSU from the case. Proceed as follows:

1. Switch off your PC. Disconnect the PSU's power cord from the wall outlet and your PSU. Unplug all cables connected to the PC case (e.g. keyboard, mouse, etc.)
2. Open the PC case (for additional information refer to the PC case's manual)
3. Disconnect all cable connections between the PSU and other PC components (e.g. mainboard, HDDs, drives, fans, etc.).
4. Remove the mounting screws connecting the PSU to the PC case and carefully remove the PSU from the case.

5.1 Installing the PSU into the PC case

1. Insert the PSU into the PC case and place it against the PSU bracket on the case's back side.
2. Screw the PSU to the case from the outside using the included screws. Be careful not to cover the fan/air intake of the built-in PSU.

Note:
All connectors are designed fault-preventing to avoid misconnection. If you are unable to the male connector-to-female connector of the drive or peripheral, please check if both connectors are attached in the correct orientation.
Do not force to plug the connectors within the incorrect orientation, nor modify any of the components, as this will damage the PSU and other hardware. SHARKOON warranty does not cover damage cause by incorrect handling.

5.2 Connecting mainboard and graphics card(s)

1. Plug the ATX power connector (fig. 1) to the respective jack on the mainboard. .

fig. 1

2. In case the mainboard also provides an additional 4-pin or 4+4-pin power connector (the so-called P4 resp. P8 connector), also plug the respective connector (fig. 2).

fig. 2

Note:
The power connection of the mainboard depends on the vendor and may vary. For detailed information on how to establish the power connector refer to your mainboard's manual.

3. In case your PCIe graphics card is equipped with an additional power connector, also plug the 6-pin (fig. 3a) or (fig. 3b) PCIe power connector which will provide stable power support for your graphics card.

fig. 3a

fig. 3b

5.3 Connecting optical drives and other peripheral devices

1. Connect the 4-pin plug (fig. 4), the SATA plug (fig. 5) and the 4-pin floppy plug (fig. 6) to the respective peripheral devices.

fig. 4

fig. 5

fig. 6

Note:
The power connection of the mainboard depends on the vendor and may vary. For detailed information on how to establish the power connector refer to your mainboard's manual.

5.4 Connecting the cables to the PSU

Connect the modular cables to the PSU according to the connector coding (see above fig. 4).

5.5 Checking all connections

Make sure that all devices are connected properly then plug the PSU's power cord to a wall outlet and switch the power supply on. This ends the installation of the PSU.

On/Off switch of the power supply

6. Troubleshooting

If the PSU does not work properly, check the following:

1. Is the power cord correctly connected to a wall outlet and the PSU's power connector?
2. Ensure that the on/off switch is in the "I" position.
3. Check if the main power connector is correctly plugged to the mainboard.
4. Check if the power connectors are properly connected to the peripheral devices in case the short circuit protection function was activated when switching on the PSU.
5.. Turn the power switch "off" and back "on" several times, with a minimum cycle pause of 5 seconds.
6. If the PSU still does not start, please contact support@sharkoon.com

Legal disclaimer

As part of SHARKOON continued policy of product improvement, product design and specifications are subject to change without notice.

The specifications may vary in different countries.

Disposal of your old product

Your product is designed and manufactured with high quality materials and components, which can be recycled and reused.

When this crossed-out wheeled bin symbol is attached to a product, it means the product is covered by the European Directive 2002/96/EC.

Please be informed about the local separate collection system for electrical and electronic products.

Please act according to your local rules and do not dispose of your old products with your normal household waste. The correct disposal of your old product will help prevent potential negative consequences to the environment and human health.

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