Sharkoon

WPM GOLD ZERO

MANUAL

Content

1. Specifications

1.1 General

Power	550, 650 or 750 Watt
Warranty	2 Years
PCIe Connector	4x 6+2-Pin
Fan	140 mm Fan with Fluid Dynamic Bearing
Efficiency	20 % Load: min. 87 % 50 % Load: min. 90 % 100 % Load: min. 87 %
80 PLUS Certification	Gold

1.2 Package Contents

- WPM Gold ZERO
- Power Cord
- Cable Bag
- Set with Modular Cables*
- Set of Mounting Screws
- Manual

** All cables shown in the cable chart are included in the packaging (see page 8).*

1.3 Model-Specific

Model	WPM Gold ZERO 550				
Input (AC)	Voltage		Current	Frequency	
	100 - 240 V		8 A / 4 A	47 - 63 Hz	
Output Voltage (DC)	+3.3 V	+5 V	+12 V	-12 V	+5 Vsb
Max. Output Current	20 A	20 A	45 A	0.3 A	2.5 A
Max. Combined Power	110 W		540 W	3.6 W	12.5 W
Total Power	550 W				

Model	WPM Gold ZERO 650				
Input (AC)	Voltage		Current	Frequency	
	100 - 240 V		10 A / 5 A	47 - 63 Hz	
Output Voltage (DC)	+3.3 V	+5 V	+12 V	-12 V	+5 Vsb
Max. Output Current	20 A	20 A	53 A	0.3 A	2.5 A
Max. Combined Power	110 W		636 W	3.6 W	12.5 W
Total Power	650 W				

Model	WPM Gold ZERO 750				
Input (AC)	Voltage		Current	Frequency	
	100 - 240 V		10 A / 5 A	47 - 63 Hz	
Output Voltage (DC)	+3.3 V	+5 V	+12 V	-12 V	+5 Vsb
Max. Output Current	20 A	20 A	62 A	0.3 A	2.5 A
Max. Combined Power	120 W		744 W	3.6 W	12.5 W
Total Power	750 W				

2. Safety Standards and Protections

This power supply is designed for a mains voltage of 100 - 240 volts. It complies with CE, FCC and CB safety standards and has the following protection features:

Over Power Protection (OPP)

If the system demands more power than the specifications allow, the power supply will switch off to protect the electronics from damage.

Over Voltage Protection (OVP)

This function shuts off the power supply to protect the components as soon as the internal voltage exceeds specified limits.

Short Circuit Protection (SCP)

Should a short circuit occur, the SCP function switches off the power supply and protects the electronics from damage.

3. Installation

3.1 Removal of Existing Power Supply from PC Case

If installing into an empty PC case, proceed to the section “Installing the Power Supply in a PC Case“. For a PC case with an already installed power supply, first remove this from the case. Proceed as follows:

1. First shut down your PC. Then disconnect the power cord from the wall outlet and the power supply.

2. Now open the PC case (for additional information, refer to the manual of your PC case).

3. Disconnect all cables between the power supply and the other PC components (e.g. mainboard, drives, fans, etc.).

4. Remove the mounting screws connecting the power supply to the PC case and then carefully remove the power supply from the case.

3.2 Installing the Power Supply into a PC Case

1. Insert the power supply into the PC case and place it against the power supply mount on the rear panel. For additional information, see the manual for your PC case.

2. Attach the power supply from the outside of the case using the provided screws. Ensure that the fan and air vents of the installed power supply are not covered.

3. Use the supplied cables to connect the power supply to the components. The connectors are coded to avoid connecting incorrectly. Please pay attention to the labeling of the connections on the power supply.

4. Connection Options

The WPM Gold ZERO has a semi-modular cable system. In addition to the permanently attached ATX cable and the 4+4-pin CPU cable, only those cables are used on the power supply which are actually needed when connecting hardware and peripherals. The complete wiring and the inside of the case thus remain tidy, and the air flow is not unnecessarily obstructed. The WPM Gold ZERO has the following connection options:

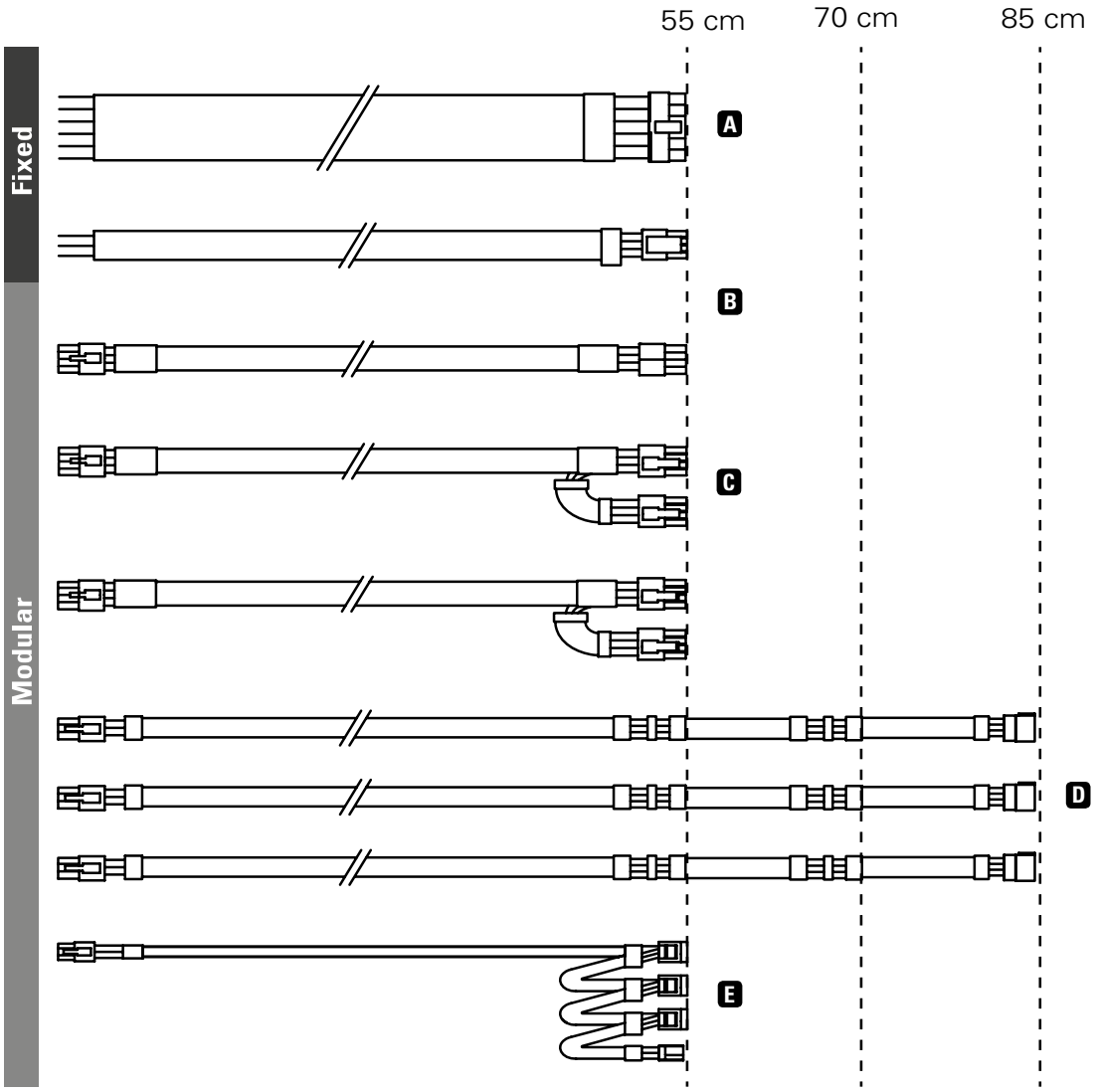
A 2x Sockets for 4+4-Pin CPU Connector* (CPU) or 6+2-Pin PCIe Connector (PCIe)

B 4x Sockets for SATA Connector (PERIPHERAL/SATA)

* *With the included second 4+4-pin CPU cable, which can be connected to one of the two PCIe/CPU sockets on the power supply, power-hungry systems can be operated without an adapter. In this case, there are still 2x 6+2-pin connectors for powering graphics cards.*

5. Cable Diagram

The WPM Gold ZERO comes with a range of modular ribbon cables with the following connectors:



A 1x Cable with 24-Pin Mainboard Connector (permanently attached cable)

B 2x Cables each with 1x 4+4-Pin CPU Connector (1x permanently attached cable)

C 2x Cables each with 2x 6+2-Pin PCIe Connectors

D 3x Cables each with 3x SATA Connectors

E 1x Cable with 3x IDE Connectors 1x Floppy Connector

<u>Please note:</u> Make sure that only the included set of modular cables is used. The use of other cables (e.g. older power supply cables from Sharkoon or cables from other manufacturers) can result in damage to the device and connected peripherals.

6. Connecting

6.1 Connection for Mainboard and Graphics Card

1. Connect the cable with the 24-pin mainboard connector to the appropriate sockets on the mainboard.

2. If your mainboard has an additional 4-pin / 4+4-pin CPU connection, plug the connector into the socket on the mainboard and the power supply.

   Please note: The type of connection on the mainboard depends on the manufacturer and may therefore vary. For additional information, see the manual for your mainboard.

3. If your PCIe graphics card requires additional power, connect the 6-pin or 6+2-pin PCIe connector to the power supply to ensure a stable electrical current to your graphics card.

6.2 Connecting Drives and Other Peripheral Devices

Connect drives and peripherals to the power supply.

Please note: For additional assistance, refer to the manuals for your drives and peripherals.

6.3 Checking all Connections

First, make sure all devices have been connected properly. Close the PC case. Then connect the power cord to the power supply and to a wall outlet. Then switch on the power supply using the on/off switch on the back of the device. This completes the installation.

Please note: The cable connectors are designed to prevent improper connection. If the connector does not fit into the sockets of mainboard, drive or peripheral device, please check if the connector and socket are being connected in the correct orientation. Do not try to force a connector into a socket using the incorrect alignment, nor modify the components, otherwise the power supply and your hardware will be damaged. The Sharkoon warranty does not cover any damage that has been caused by improper handling.

7. Troubleshooting

If the power supply is not functioning correctly, check the following points:

1. Is the power cord correctly connected to the wall outlet and the socket of the power supply?
2. Make sure the on/off switch is in the “I“ position.
3. Check that the 24-pin mainboard connector and the 4+4-pin CPU connector are correctly connected to the mainboard.
4. Check if the connectors of the cables are firmly plugged into the sockets of the peripherals.
5. Pull the power plug out of the wall outlet and leave the power supply without power for approximately 10 minutes. This will cause a reset of the protective circuits.

If the system still fails to function, please contact support@sharkoon.com.

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As a continuing policy of product improvement at Sharkoon, the design and specifications are subject to change without prior notice. National product specifications may vary.

Disposal of Your Old Products

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 2012/19/EU.

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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