



SILENT STORM

SFX BRONZE

Manual





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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

CPU:	Supports Intel Haswell CPUs.
High Energy Efficiency:	This power supply is "80 PLUS Bronze" certified and meets all requirements with an efficiency of at least 85% under 50% load and 82% under both 20% and 100% load.
Guarantee:	3 year guarantee.
PCIe Connector 350 Watt:	This power supply is equipped with a 6-pin PCIe connector.
PCIe Connector 450 Watt:	This power supply is equipped with a 6-pin and a 6+2-pin PCIe connector.
80 mm Fan:	Operating noise is effectively reduced due to the 80 mm fan.
Environmentally Friendly :	Certified to current energy and environmental standards.

WARNING



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. Guarantee 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.	SilentStorm SFX 350 Bronze				
Input (AC)	Input voltage		Current	Frequency	
	100 - 240 V		5.5 A	50 - 60 Hz	
Output (DC)	+5 V	+3,3 V	+12 V	-12 V	+5 Vsb
Max. Output Current	15 A	16 A	27 A	0.3 A	3 A
Max. Combined Power	105 W		324 W	3.6 W	15 W
Total Power	350 W				

Model No.	SilentStorm SFX 450 Bronze				
Input (AC)	Input voltage		Current	Frequency	
	100 - 240 V		7 A	50 - 60 Hz	
Output (DC)	+5 V	+3.3 V	+12 V	-12 V	+5 Vsb
Max. Output Current	22 A	21 A	36 A	0.5 A	3 A
Max. Combined Power	120 W		432 W	6 W	15 W
Total Power	450 W				



2.2 Mains voltage and protective functions

This power supply works with 100 to 240 V (50/60 Hz) and is equipped with the following protective functions:

1. Over Power Protection (OPP)

Over Power Protection: Turns off the power supply when more power than allowed is being delivered to the system, thus protecting the electronics from damage.

2. Over Voltage Protection (OVP)

Over Voltage Protection: This function protects against excessive voltage, preventing damage to the PC by switching off the power supply during a surge.

3. Under Voltage Protection (UVP)

Under Voltage Protection: If the power supply falls below a fixed number of the minimum voltage it will switch off automatically.

4. Short Circuit Protection (SCP)

Short Circuit Protection: Should a short circuit occur with your PC, the SCP function switches off the power supply and protects the electronics from damage.

2.3 Safety standards

Our power supply has been certified to comply with CE, FCC, CB, BSMI and C-TICK regulations.

2.4 Guarantee period

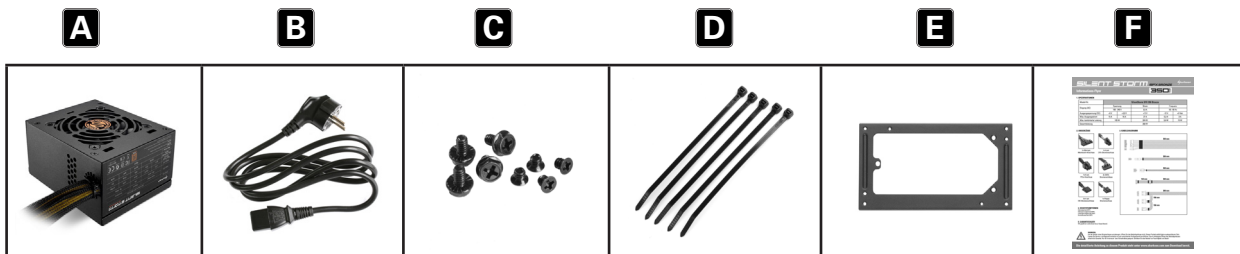
For this power supply we provide a 3 year guarantee.





3. Package contents

- (A) SilentStorm SFX Bronze
- (B) Power cable
- (C) Set of mounting screws
- (D) Cable ties
- (E) ATX bracket
- (F) Instructions



Note:

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



4. Cabling

The Intel Haswell compatible power supply series in the 350 Watt version provides, in addition to the standard CPU and mainboard connectors, a 6-pin PCIe connector, two SATA, two IDE and a Floppy connector. The SilentStorm SFX Bronze 450 Watt also offers an additional SATA connector as well as a 6+2-pin PCIe connector.

4.1 Connectors

SilentStorm SFX Bronze 350 Watt



1x 20+4-pin
mainboard connector



1x 4-pin CPU
power connector



1x 6-pin PCIe
connector



2x SATA
power connectors



2x 4-pin IDE
power connectors



1x Floppy
power connector

SilentStorm SFX Bronze 450 Watt



1x 20+4-pin
mainboard connector



1x 4+4-pin CPU
power connector



1x 6+2-pin & 1x 6-pin
PCIe connector



3x SATA
power connectors



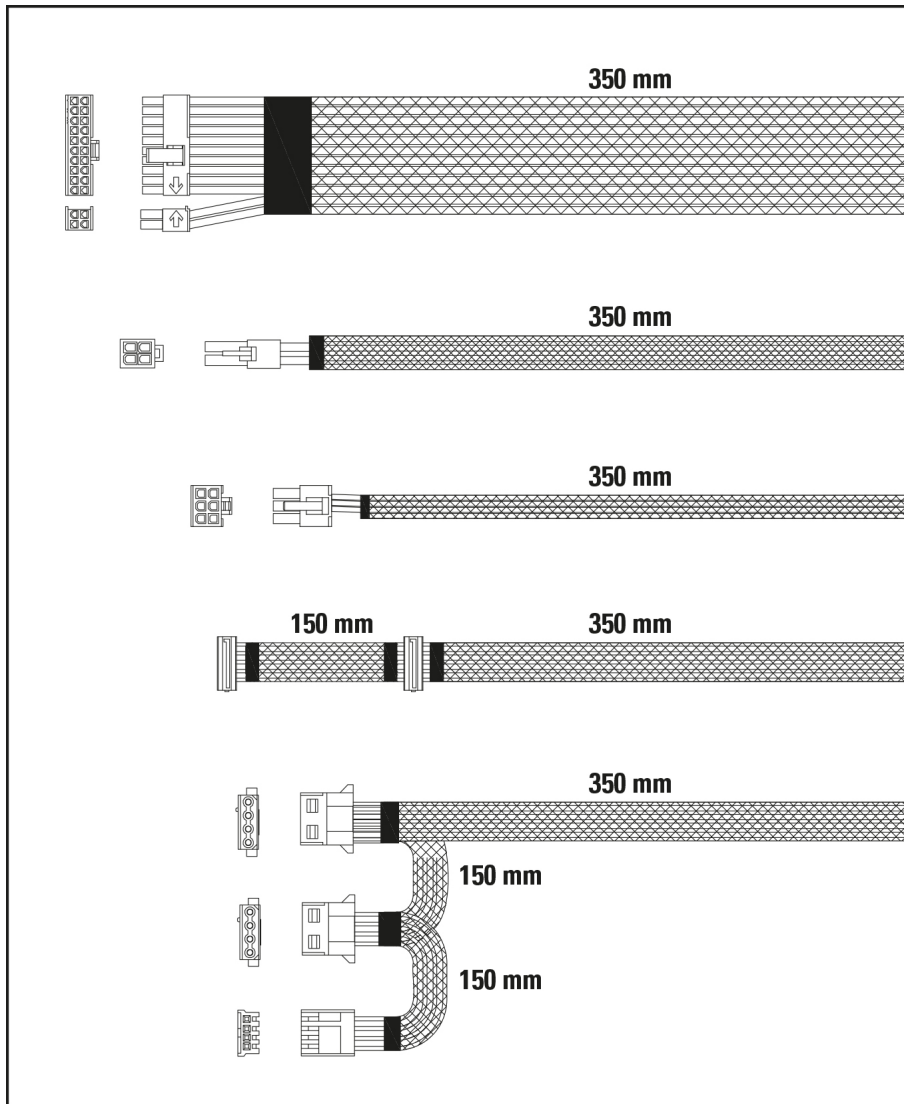
2x 4-pin IDE
power connectors



1x Floppy
power connector

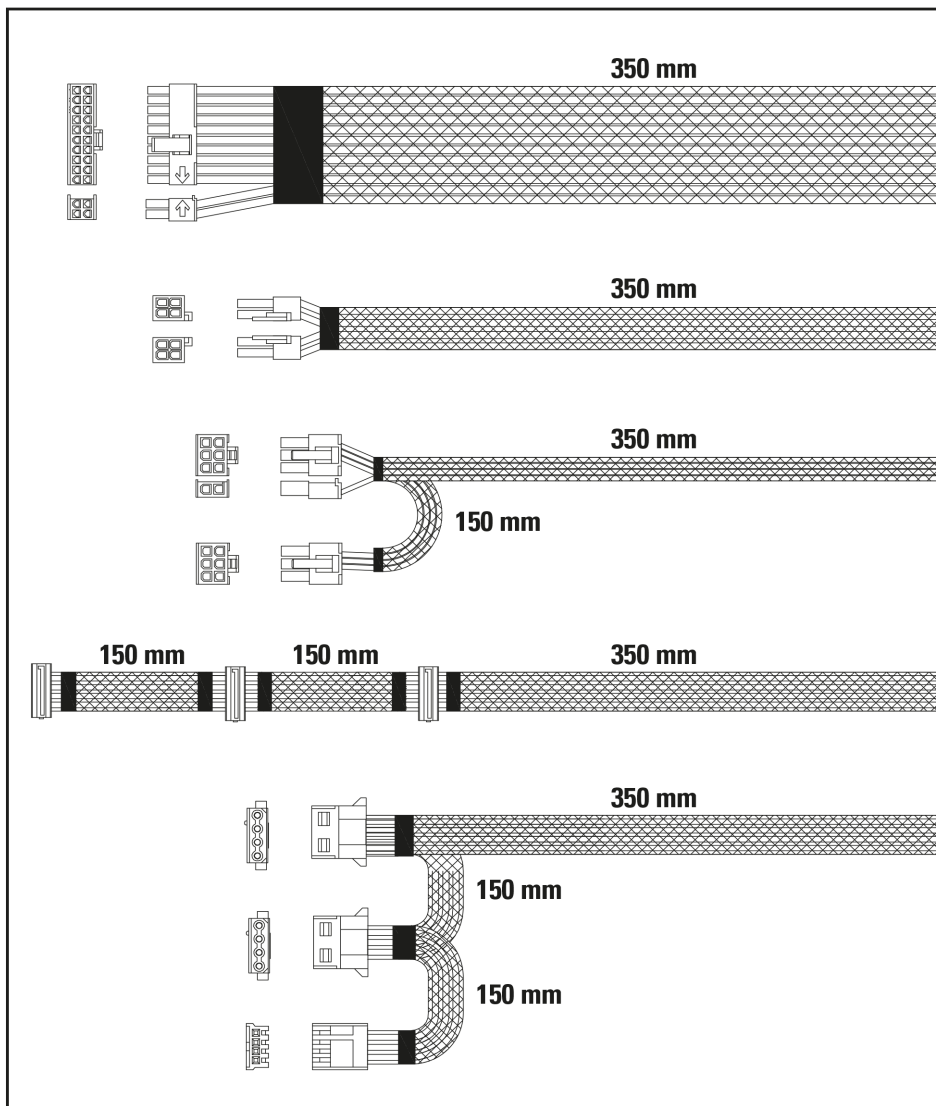


4.2 SilentStorm SFX Bronze 350 Watt cable length





4.3 SilentStorm SFX Bronze 450 Watt cable length





5. Installation

If installing into an empty PC case please continue to section 5.1. If a power supply has already been installed, remove it first from the case. To do so proceed as follows:

1. Switch off your PC. Disconnect the power cable from the wall outlet and your power supply. 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 power supply and other PC components (e.g. mainboard, HDDs, drives, fans, etc.).
4. Remove the mounting screws connecting the power supply to the PC case and carefully remove the power supply from the case.

5.1 Installing the power supply into the PC case

1. Insert the power supply into the PC case and place it against the power supply bracket.
2. Attach the power supply from the outside of the case using the provided screws. Ensure that the fan and air vents of the built-in power supply are not covered.
3. If installing the power supply into an ATX case, please use the included mounting frame (see 3). Attach the ATX mounting bracket to the power supply using the supplied screws. The SFX power supply can then be screwed to the ATX case.



5.2 Connecting the mainboard and graphics card(s)

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

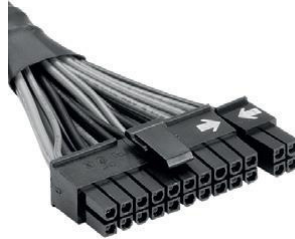


Fig. 1

2. Plug the 4-pin CPU power connector (SFX 350 Watt power supply Fig. 2a) or the 4+4-pin CPU power connector (SFX 450 Watt power supply Fig. 2b) to the respective jack on the mainboard.



Fig. 2a



Fig. 2b

Note:

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



3. Connect the 6-pin PCIe connector by the 350 Watt power supply (Fig. 3a) or the 6-pin and, if needed, the 6+2-pin PCIe connector by the 450 Watt power supply (Fig. 3b) with your graphics card(s).



Fig. 3a



Fig. 3b

5.3 Connecting optical drives and other peripheral devices

1. Connect the 4-pin IDE power connectors (fig. 4), SATA power connectors (fig. 5) or the Floppy power connector (fig. 6), as required, with the corresponding peripheral devices or drives.



Fig. 4



Fig. 5



Fig. 6

Note:

For additional information refer to the respective manuals of your drives and peripheral devices.



5.4 Checking all connections

Ensure that all devices are properly connected, then connect the power supply cable with the power supply and a power outlet. Turn the power supply on using the on/off switch located on back. This completes the installation of the power supply.



Power supply on/off switch

Note:

All connectors are fault-preventing designed to avoid misconnection. If you are unable to connect 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 power supply and other hardware. SHARKOON guarantee does not cover damage cause by incorrect handling.

6. Troubleshooting

If the power supply does not work properly, check the following:

1. Is the power cable correctly connected to a wall outlet and the power supply'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 power supply.
5. Turn the power switch "off" and then back "on" several times, with a minimum cycle of 5 seconds.
6. If the power supply still does not start, please contact support@sharkoon.com.



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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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