

Worksheet 3.3.4: Power Supplies

1. Depending on the type of case and motherboard selected, the power supply must adhere to the same _____ requirements in order to fit inside the case and correctly power the motherboard and other devices.
2. Some fans can change direction to allow air to be blown directly on the _____ and to regulate the quality of the air entering the case.
3. The two basic types of power supplies are _____ and _____.
4. Match each component with the voltage from the power supply unit that it uses.

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|-------------------------------|----------|
| 1. _____ Motherboard | a. -5V |
| 2. _____ Disk Drives | b. +3.3V |
| 3. _____ Serial Port Circuits | c. 0V |
| 4. _____ ISA bus cards | d. +12V |
| 5. _____ Most newer CPUs | e. +5V |
| 6. _____ Ground | f. -12V |

5. The power supply produces four (five in the ATX) different levels of well-regulated _____ voltage for use by the system components.
6. Match each voltage with the correct color wire.

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|-----------------|----------|
| 1. _____ Yellow | a. 0V |
| 2. _____ Red | b. -5V |
| 3. _____ Blue | c. +3.3V |
| 4. _____ White | d. +12V |
| 5. _____ Black | e. +5V |
| 6. _____ Orange | f. -12V |

7. Never attempt to repair a defective power supply. _____ inside a power supply box store electricity and will discharge through the body if touched.
8. The ATX motherboard is a _____-pin keyed connector.
9. The AT motherboard has two _____-pin connectors.
10. The ATX motherboard directs air _____
_____ of the computer case.

11. The AT motherboard directs air _____
_____ of the
computer case.