

NE450M

POWER SUPPLY

USER'S MANUAL

NE450M

Get economical power today with the NeoECO Modular Series, Antec's high-efficiency power supply solution. Featuring hybrid modular cable management, 80 PLUS® BRONZE certification, a quiet 120mm fan, and universal input with active power factor correction (PFC), the NeoECO Modular series gives you a cooler, quieter system all powered by Continuous Power. The NeoECO Modular series also features industrial safety protection, including short circuit and over voltage protection, for stable and reliable power no matter what.

STANDARDS AND FEATURES

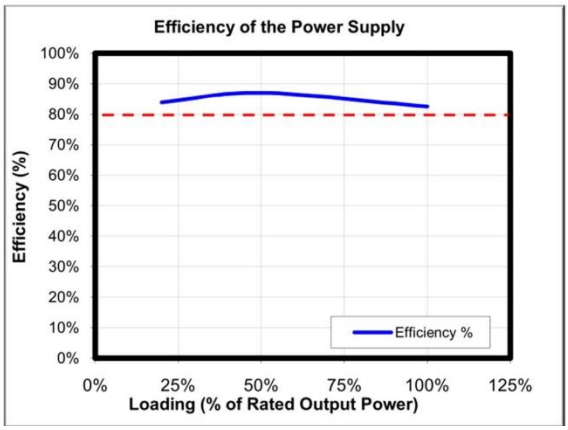
The connectors and power specifications of the NE450M PSU are all compatible with ATX12V v2.32 & EPS12V v2.92 specifications. This power supply also features Active Power Factor Correction (PFC), which improves the power factor value of the power supply by altering the input current wave shape, helping to power transmission across the grid.

SYSTEM PROTECTION

A variety of industrial-grade safety circuitry will help protect your computer. Sometimes the PSU will “latch” into a protected state. You will need to power off the PSU and clear the fault before it will function again. There are no user-replaceable fuses in your NE450M.

80 PLUS® CERTIFICATION

80 PLUS® certification is the most widely recognized independent standard in power supply efficiency. An 80 PLUS® BRONZE certified power supply uses less energy and generates less heat to stay cooler, run quieter and last longer. The NE450M has been 80 PLUS® BRONZE certified to be at least 82% efficient at a wide range of operating loads; this will lower your operating costs and help protect the environment.



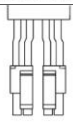
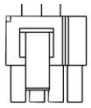
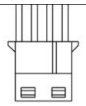
POWER OUTPUT

To see the output capacity and regulation for each different voltage, see table 1.

TABLE 1

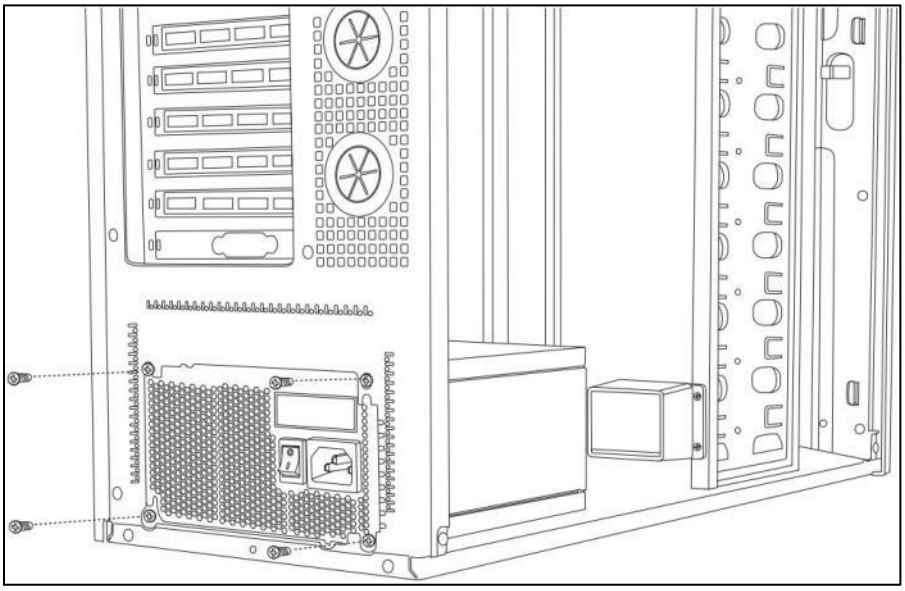
Output Voltage	Load Max.	Regulation	Ripple & Noise
$+12V_1$	34A	± 5%	< 120 mV
+3.3V	16A	± 5%	< 50 mV
+5V	15A	± 5%	< 50 mV
-12V	0.3A	± 5%	< 120 mV
+5Vsb	2.5A	± 5%	< 50 mV

TABLE 2

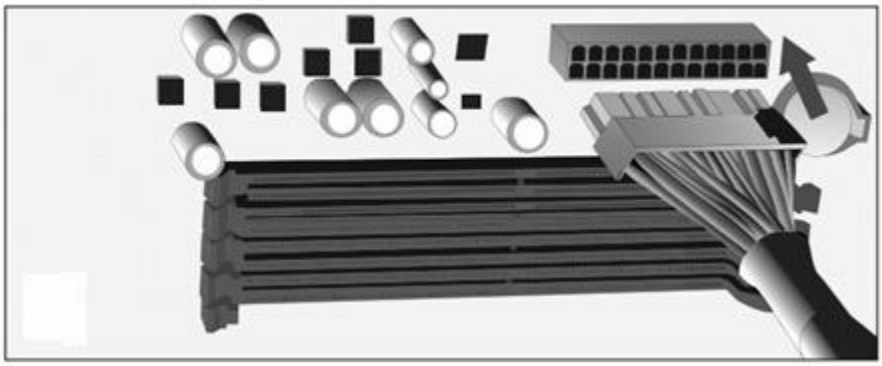
Cable Quantity	Connectors		Description
1		X 1	24(20+4)-pin Motherboard
1		X 1	8(4+4)-pin ATX12V/EPS12V
1		X 1	8(6+2)-pin PCI-E
2		X 2	SATA
		X 1	Molex

INSTALLATION

Install the PSU into either the top or bottom of your case with the four screws provided. Refer to your case manual if you are unsure where the power supply should be installed.

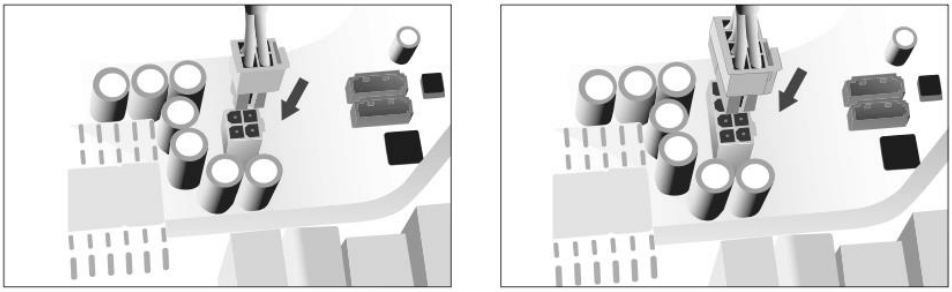


Connect the 24-pin main power connector to your motherboard.

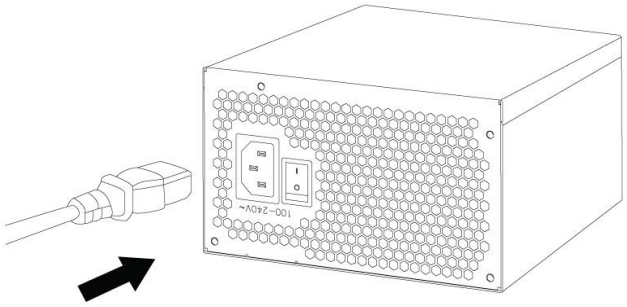


Connect the 8-pin or 4+4-pin connector for the CPU. If your motherboard has an 8-pin socket with a cover on some of the openings, we recommend that you remove the cover and use the 8-pin connector.

Note: Please also refer to your motherboards manual for any special instructions.



Connect the AC power cord to the power supply AC inlet. Be sure to use the heavy-duty cord supplied with your PSU.



PCI-E graphics cards use different amounts of power. For some, a single 6-pin connector is sufficient, making the hardwired connector the preferred choice. More powerful cards use multiple connectors, including the advanced 8-pin PCI-E connector. The 8-pin PCI-E connector on the PSU can be used as either a 6- or 8-pin connector.

Hard drives, optical drives (CD/DVD/BluRay™) and other accessories will use either the older 4-pin Molex connector or the newer 15-pin SATA connector. 4-pin Molex connectors have two black, one yellow and one red wire. The SATA connector has an additional orange power wire.

When you have all the connections secured, turn the switch on the PSU to the “|” position.

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