

EVGA. SUPERNOVA

NEX750G

NEX650G



750W / 650W POWER SUPPLY

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Introduction: Premium Power

Thank you for purchasing an EVGA SuperNOVA NEX GOLD series power supply. The NEX Gold series are premium quality power supplies intended to meet the needs of the most demanding PC enthusiast systems. Designed with enthusiast needs in mind the NEX Gold series is the best choice to power next generation systems.



SuperNOVA NEX 750W GOLD



SuperNOVA NEX 650W GOLD



Safety Information

WARNING: This unit has no user-serviceable parts inside. Opening the casing presents a risk of electrocution and will void the warranty. EVGA will not be responsible for any result of improper use, use for which the product was not intended, or use inconsistent with the warranty terms (available for review at www.evga.com/support/warranty/) and this manual (also available at www.evga.com/support/manuals/).

Features

STABLE POWER

The NEX Gold series has outstanding electrical performance with **ultra stable voltage** and extremely **clean outputs**. This can help you achieve the highest possible overclock, or just the most stability and reliability. The NEX Gold series also has high efficiency **up to 90%** and is **80PLUS GOLD** certified.

THE BEST PROTECTION

The NEX Gold series comes equipped with the most comprehensive protection set possible, including Over Voltage Protection (**OVP**), Under Voltage Protection (**UVP**), Over Power Protection (**OPP**), Short Circuit Protection (**SCP**), Over Temperature Protection (**OTP**), and Over Current Protection (**OCP**). This product is also covered by an exceptional **10-year warranty** and EVGA's legendary customer service and support.

SUPERIOR BUILD QUALITY

The NEX Gold series is built to the highest standards, using **Japanese capacitors** rated at 105 degrees Celsius and high quality brand-name semiconductor components for the highest performance and reliability.

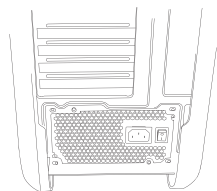
MODULAR DESIGN

The NEX Gold series is designed with the enthusiast in mind, with fully modular cables to maximize airflow and keep your system looking slick and clean.

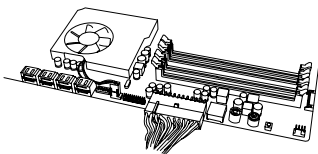
Installation

1. Remove the power supply from its packaging.

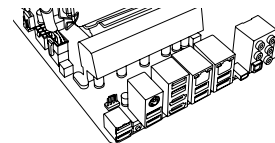
2. Use the screws provided with your case to install the power supply into your computer. **NOTE:** It is recommended to install the power supply with the fan facing down. However, if your case places the power supply at the bottom of the case and there are no ventilation holes there, it may be best to install the power supply with the fan facing up for greater efficiency and reliability.



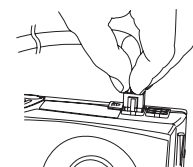
3. Connect the 24-pin ATX cable to the motherboard.



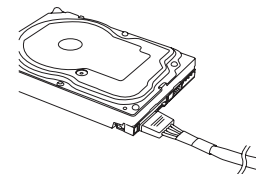
4. Connect the 8-pin EPS12V cable to the motherboard.



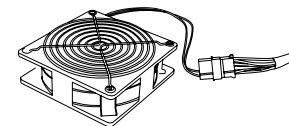
5. Connect the 6/8-pin PCIe cables to your graphics card(s). **NOTE:** Do not attempt to plug an 8-pin PCIe cable into a 6-pin connector without first detaching the two extra pins.



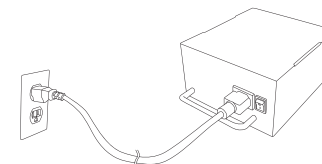
6. Connect the SATA cables to your power supply and drives (hard drives, solid state drives, optical drives).



7. Connect the peripheral "molex" connectors to the power supply and your fans and other devices.



8. Connect the AC power cord to your power supply and to the wall, and turn the power switch to the ON position.



NEX750G Cable Configuration

Modular Connector	Cables	Cable Color	+12V Rail
MB	1x ATX 24 pin	Black	+12V1
CPU1	1x EPS12V 4+4 pin	Black	+12V1
CPU2	1x EPS12V 4+4 pin		+12V3
VGA1	4x PCIe 6+2 pin + 6 pin	Red	+12V2
VGA2			+12V2
VGA3			+12V4
VGA4			+12V4
SATA1	3x SATA 5 pin x3	Black	+12V3
SATA2			
SATA3			
PERP1	2x Molex 4 pin x3	Black	+12V3
PERP2			
FDD	1x Molex to FDD Adapter	Black	+12V3

NEX750G Specifications

EVGA	SuperNOVA NEX750G GOLD							+50°C ambient @ full load		80Plus GOLD
AC Input	100-240 VAC~, 10-5A, 50-60 Hz, C-14 input connector									
DC Output	+5V	+3.3V	+12V1	+12V2	+12V3	+12V4	-12V	+5Vsb		
MAX output, A	25	25	20	20	20	20	0.8	3		
Combined, W	150		61A / 732W				9.6	15		
Output power, Pcont	750W @ +50°C									



Dimensions: 85mm (H) x 150mm (W) x 180mm (L)

Over Voltage Protection, Under Voltage Protection, Short Circuit Protection, Over Temperature Protection, Over Power Protection.
NEX650G Cable Configuration

Modular Connector	Cables	Cable Color	+12V Rail
MB	1x ATX 24 pin	Black	+12V1
CPU1	1x EPS12V 4+4 pin	Black	+12V1
CPU2	1x EPS12V 4+4 pin		+12V3
VGA1	3x PCIe 6+2 pin 1x PCIe 6+2 pin + 6 pin	Red	+12V2
VGA2			+12V2
VGA3			+12V4
VGA4			+12V4
SATA1	3x SATA 5 pin x3	Black	+12V3
SATA2			
SATA3			
PERP1	2x Molex 4 pin x3	Black	+12V3
PERP2			
FDD	1x Molex to FDD Adapter	Black	+12V3

NEX650G Specifications

EVGA	SuperNOVA NEX650G GOLD							+50°C ambient @ full load		80Plus GOLD
AC Input	100-240 VAC~, 10-5A, 50-60 Hz, C-14 input connector									
DC Output	+5V	+3.3V	+12V1	+12V2	+12V3	+12V4	-12V	+5Vsb		
MAX output, A	25	25	20	20	20	20	0.8	3		
Combined, W	150		53A / 636W				9.6	15		
Output power, Pcont	650W @ +50°C									



Dimensions: 85mm (H) x 150mm (W) x 180mm (L)

Over Voltage Protection, Under Voltage Protection, Short Circuit Protection, Over Temperature Protection, Over Power Protection.

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