NGDP

PC POWER SUPPLY
750W / 850W / 1000W

80 PLUS GOLD
FULL - MODULAR

FEATURES :

- 80 PLUS Gold Certified: High efficiency for lower energy costs
- Embossed Cable: Stylish, durable and flexible
- Fully Modular: Detachable cables for easy management
- 80 mm hydraulic bearing fan that supports 0 RPM mode
- Japanese Electrolytic Capacitors: Ensures reliability and longevity

JAPANESE ELECTROLYTIC CAPACITORS

ZERO RPM MODE

ATX 3.1 PCIe 5.1 READY

80 PLUS GOLD

PC POWER SUPPLY
NGDP

VER250619BN

REVISION HISTORY

Version Number	Date	Modification Description	Modified By
VER250416BN	Apr 16, 2025	Updated Cable Information, Pictures	Ben
VER250619BN	Jun 19, 2025	Updated 750W cable info	Shu

SAFETY AND PROTECTION

Your new power supply unit comes equipped with multiple protective features to ensure safe and reliable operation:

Under-Voltage Protection (UVP) shuts the PSU off if the voltage the PSU is providing to the PC drops below accepted values.

Over-Voltage Protection (OVP) Monitors 12V, 5V, and 3.3V outputs. Automatically shuts down the PSU if voltage exceeds safe levels.

Over-Power Protection (OPP) Turns off the PSU if power draw reaches preset percentage of the rated capacity.

Short-Circuit Protection (SCP) Activates when output impedance falls below 0.1 ohms. Protects against shorts between rails or to ground, preventing damage to the PSU and system components.

Over-Current Protection (OCP) Keeps 3.3V, 5V, and 12V rail outputs within safe operating limits.

Over-Temperature Protection (OTP) Shuts down the PSU if internal temperature becomes too high, typically due to overloading or fan failure.

These safety mechanisms work together to protect your computer system and the power supply itself from potential electrical hazards. For optimal performance and longevity, always operate your PSU within its rated specifications.

SPECIFICATIONS HA-750BA4

NGDP GOLD 750W

MODEL	HA-750BA4
POWER OUTPUT	750w
INPUT VOLTAGE	100 - 240 V
INPUT CURRENT	10 - 5 A
INPUT FREQUENCY	50 / 60 Hz
EFFICIENCY	88.66% at full load
DIMENSIONS (L x W x H)	140 x 150 x 86 mm
MODULAR	Full-modular
CERTIFICATIONS	80 PLUS Gold
PFC	Active PFC
FAN SIZE	120 mm FDB
PROTECTIONS	UVP, OVP, OPP, SCP, OCP, OTP
REGULATORY	CE / FCC / C-Tik / RoHS / CCC / cTUVus / IEC / EAC
MTBF	100,000 hours
CIRCUIT STRUCTURE	LLC + DC - DC
WARRANTY	10 years

DC OUTPUT (V)	MAX LOAD (A)	MAX OUTPUT (W)
+3.3V	20A	120W
+5V	20A	
+12V	62.5A	750W
+5VSb	3A	15W
-12V	0.3A	3.6W

SPECIFICATIONS HA-850BA4

NGDP GOLD 850W

MODEL	HA-850BA4
POWER OUTPUT	850W
INPUT VOLTAGE	100 - 240 V
INPUT CURRENT	10 - 5 A
INPUT FREQUENCY	50 / 60 Hz
EFFICIENCY	88.39% at full load
DIMENSIONS (L x W x H)	140 x 150 x 86 mm
MODULAR	Full-modular
CERTIFICATIONS	80 PLUS Gold
PFC	Active PFC
FAN SIZE	120 mm FDB
PROTECTIONS	UVP, OVP, OPP, SCP, OCP, OTP
REGULATORY	CE / FCC / C-Tik / RoHS / CCC / cTUVus / IEC / EAC
MTBF	100,000 hours
CIRCUIT STRUCTURE	LLC + DC - DC
WARRANTY	10 years

DC OUTPUT (V)	MAX LOAD (A)	MAX OUTPUT (W)
+3.3V	20A	120W
+5V	20A	
+12V	70.8A	849.6W
+5VSb	3A	15W
-12V	0.3A	3.6W

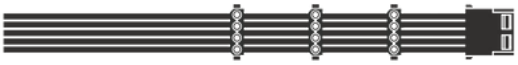
SPECIFICATIONS HA-1000BA4

NGDP GOLD 1000W

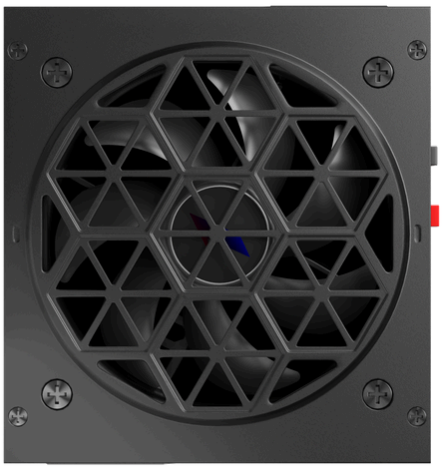
MODEL	HA-1000BA4
POWER OUTPUT	1000 W
INPUT VOLTAGE	100 - 240 V
INPUT CURRENT	12 - 6 A
INPUT FREQUENCY	50 / 60 Hz
EFFICIENCY	88.7% at full load
DIMENSIONS (L x W x H)	140 x 150 x 86 mm
MODULAR	Full-modular
CERTIFICATIONS	80 PLUS Gold
PFC	Active PFC
FAN SIZE	120 mm FDB
PROTECTIONS	UVP, OVP, OPP, SCP, OCP, OTP
REGULATORY	CE / FCC / C-Tik / RoHS / CCC / cTUVus / IEC / EAC
MTBF	100,000 hours
CIRCUIT STRUCTURE	LLC + DC - DC
WARRANTY	10 years

DC OUTPUT (V)	MAX LOAD (A)	MAX OUTPUT (W)
+3.3V	20A	120W
+5V	20A	
+12V	83A	996W
+5VSb	3A	15W
-12V	0.3A	3.6W

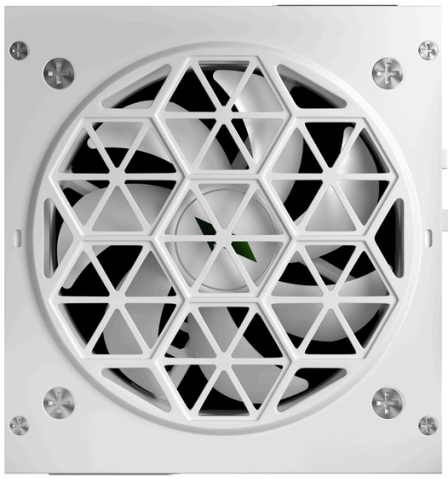
CABLE INFORMATION

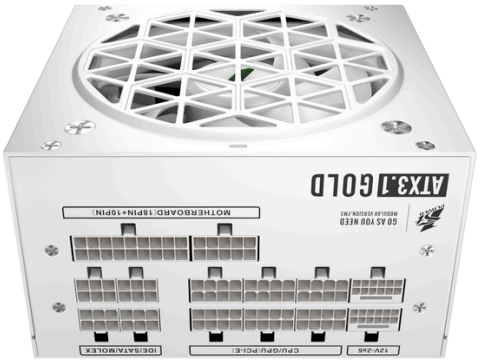
CONNECTORS	TOTAL LENGTH	750W	850W/1000W
ATX Cable 24-pin (MB) 	610 mm	1	1
ATX12V Cable 8-pin (CPU 4+4) 	650 mm	2	2
PCI-E Cable 12V-2x6 (GPU 12+4) 	720 mm	1	1
PCI-E Cable 8-pin (GPU 6+2) 	600 mm	2	3
SATA Cable (SSD/HDD) 	465 mm	2	2
MOLEX Cable (4 PATA) 	465 mm	1	1

PICTURES




ATX3.1 GOLD
GO AS YOU NEED
MODULAR VERSION (M2)
MOTHERBOARD(18PIN+10PIN)
10E/SATA/MOLEX
CPU/GPU/PCI-E
12V-2X6




ATX3.1 GOLD
GO AS YOU NEED
MODULAR VERSION (M2)
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10E/SATA/MOLEX
CPU/GPU/PCI-E
12V-2X6

INSTALLATION GUIDE

Before You Begin, ensure your system is powered off and unplugged from any power source.

Step 1: Removing the Existing PSU (Skip if building a new system)

1. Unplug the AC power cord from both the wall outlet and the current PSU.
2. Carefully disconnect all power cables from your components (GPU, motherboard, drives, etc.).
3. Remove the old PSU from your case following your chassis manual instructions.

Step 2: Installing Your New PSU

1. Verify the PSU's AC power cable is disconnected.
2. Mount the new PSU in your case using the provided screws.
3. Connect the main power cables:
   - Attach the 24-pin ATX cable to your motherboard.
   - Connect the CPU power cable (4-pin, 8-pin, or 4+4-pin) as required by your motherboard.
4. Connect component power cables:
   - SATA power cables to SSDs, HDDs, and optical drives.
   - PCIe or 12V-2x6 power cables to your graphics card(s) if needed.
   - Peripheral (Molex) cables to any components requiring them.
5. Double-check all connections are secure.
6. Organize cables for optimal airflow, using cable management features in your case.
7. Connect the AC power cord to the PSU, but don't plug it into the wall yet.

Important Notes:

- Use only the cables provided with your new PSU to ensure compatibility and safety.
- Refer to your motherboard and GPU manuals for specific power requirements.
- Store unused modular cables safely for future upgrades.

After installation, ensure all components are properly connected before powering on your system.

INSTALLATION GUIDE

For proper installation, match each cable connector to the same color port on the power supply unit and PC components.