

FK

POWER SUPPLY



Feature:

- 12 cm FDB low noise fan
- EFF. high as 90% under typical loading
- Comply with ErP LOT 6
- Multi protections: OVP, OPP, UVP, SCP

+12V
OUTPUT **90%** PLUS

27.5dBA

0.5W LESS
Standby
Power

 **12"** Fan
Hydraulic
Bearing



POWER SUPPLY
FK SERIES

VER250604BN

REVISION HISTORY

Version Number	Date	Modification Description	Modified By
VER250604BN	Jun 4, 2025	Updated Cable Information	Ben

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 115-135% 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.

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.



**POWER SUPPLY
FK SERIES**

PS-300FK SPECIFICATIONS

MODEL	PS-300FK
POWER OUTPUT	300 W
INPUT VOLTAGE	200 - 240V
INPUT CURRENT	8 A
INPUT FREQUENCY	50 - 60 Hz
EFFICIENCY	90% at full load
DIMENSIONS (L x W x H)	140 x 150 x 86 mm
MODULAR	Non-modular
PFC	Passive PFC
FAN SIZE	120 mm
PROTECTIONS	UVP, OVP, OPP, SCP
REGULATORY	CE/FCC/RoHS/CCC/EAC/CB/RCM
WARRANTY	3 years

DC OUTPUT	MAX LOAD (A)	MAX OUTPUT (W)
+3.3V	15	100
+5V	15	
+12V	25	300
+5VSb	2.5	12.5
-12V	0.3	3.6



POWER SUPPLY
PS-300FK

PS-400FK SPECIFICATIONS

MODEL	PS-400FK
POWER OUTPUT	400 W
INPUT VOLTAGE	200 - 240V
INPUT CURRENT	8 A
INPUT FREQUENCY	50 - 60 Hz
EFFICIENCY	90% at full load
DIMENSIONS (L x W x H)	140 x 150 x 86 mm
MODULAR	Non-modular
PFC	Passive PFC
FAN SIZE	120 mm
PROTECTIONS	UVP, OVP, OPP, SCP
REGULATORY	CE/FCC/RoHS/CCC/EAC/CB/RCM
WARRANTY	3 years

DC OUTPUT	MAX LOAD (A)	MAX OUTPUT (W)
+3.3V	15	100
+5V	15	
+12V	33	396
+5VSb	2.5	12.5
-12V	0.3	3.6



POWER SUPPLY
PS-400FK

PS-500FK SPECIFICATIONS

MODEL	PS-500FK
POWER OUTPUT	500 W
INPUT VOLTAGE	200 - 240V
INPUT CURRENT	8 A
INPUT FREQUENCY	50 - 60 Hz
EFFICIENCY	90% at full load
DIMENSIONS (L x W x H)	140 x 150 x 86 mm
MODULAR	Non-modular
PFC	Active PFC
FAN SIZE	120 mm
PROTECTIONS	UVP, OVP, OPP, SCP
REGULATORY	CE/FCC/RoHS/CCC/EAC/CB/RCM
WARRANTY	3 years

DC OUTPUT	MAX LOAD (A)	MAX OUTPUT (W)
+3.3V	15	100
+5V	15	
+12V	41	492
+5VSb	2.5	12.5
-12V	0.3	3.6



POWER SUPPLY
PS-500FK

PS-550FK SPECIFICATIONS

MODEL	PS-550FK
POWER OUTPUT	550 W
INPUT VOLTAGE	200 - 240V
INPUT CURRENT	8 A
INPUT FREQUENCY	50 - 60 Hz
EFFICIENCY	90% at full load
DIMENSIONS (L x W x H)	140 x 150 x 86 mm
MODULAR	Non-modular
PFC	Active PFC
FAN SIZE	120 mm
PROTECTIONS	UVP, OVP, OPP, SCP
REGULATORY	CE/FCC/RoHS/CCC/EAC/CB/RCM
WARRANTY	3 years

DC OUTPUT	MAX LOAD (A)	MAX OUTPUT (W)
+3.3V	15	100
+5V	15	
+12V	45	540
+5VSb	2.5	12.5
-12V	0.3	3.6



POWER SUPPLY
PS-550FK

PS-600FK SPECIFICATIONS

MODEL	PS-600FK
POWER OUTPUT	600 W
INPUT VOLTAGE	200 - 240V
INPUT CURRENT	8 A
INPUT FREQUENCY	50 - 60 Hz
EFFICIENCY	90% at full load
DIMENSIONS (L x W x H)	140 x 150 x 86 mm
MODULAR	Non-modular
PFC	Active PFC
FAN SIZE	120 mm
PROTECTIONS	UVP, OVP, OPP, SCP
REGULATORY	CE/FCC/RoHS/CCC/EAC/CB/RCM
WARRANTY	3 years

DC OUTPUT	MAX LOAD (A)	MAX OUTPUT (W)
+3.3V	15	100
+5V	15	
+12V	50	600
+5VSb	2.5	12.5
-12V	0.3	3.6



**POWER SUPPLY
PS-600FK**

PS-650FK SPECIFICATIONS

MODEL	PS-650FK
POWER OUTPUT	650 W
INPUT VOLTAGE	200 - 240V
INPUT CURRENT	10 A
INPUT FREQUENCY	50 - 60 Hz
EFFICIENCY	90% at full load
DIMENSIONS (L x W x H)	140 x 150 x 86 mm
MODULAR	Non-modular
PFC	Active PFC
FAN SIZE	120 mm
PROTECTIONS	UVP, OVP, OPP, SCP
REGULATORY	CE/FCC/RoHS/CCC/EAC/CB/RCM
WARRANTY	3 years

DC OUTPUT	MAX LOAD (A)	MAX OUTPUT (W)
+3.3V	15	100
+5V	15	
+12V	54	648
+5VSb	2.5	12.5
-12V	0.3	3.6



POWER SUPPLY
PS-650FK

PS-700FK SPECIFICATIONS

MODEL	PS-700FK
POWER OUTPUT	700 W
INPUT VOLTAGE	200 - 240V
INPUT CURRENT	10 A
INPUT FREQUENCY	50 - 60 Hz
EFFICIENCY	90% at full load
DIMENSIONS (L x W x H)	140 x 150 x 86 mm
MODULAR	Non-modular
PFC	Active PFC
FAN SIZE	120 mm
PROTECTIONS	UVP, OVP, OPP, SCP
REGULATORY	CE/FCC/RoHS/CCC/EAC/CB/RCM
WARRANTY	3 years

DC OUTPUT	MAX LOAD (A)	MAX OUTPUT (W)
+3.3V	15	100
+5V	15	
+12V	58	696
+5VSb	2.5	12.5
-12V	0.3	3.6



**POWER SUPPLY
PS-700FK**

PS-750FK SPECIFICATIONS

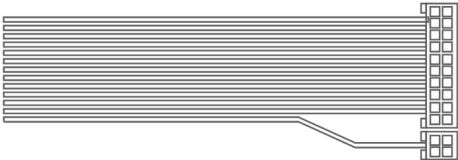
MODEL	PS-750FK
POWER OUTPUT	750 W
INPUT VOLTAGE	200 - 240V
INPUT CURRENT	10 A
INPUT FREQUENCY	50 - 60 Hz
EFFICIENCY	90% at full load
DIMENSIONS (L x W x H)	140 x 150 x 86 mm
MODULAR	Non-modular
PFC	Active PFC
FAN SIZE	120 mm
PROTECTIONS	UVP, OVP, OPP, SCP
REGULATORY	CE/FCC/RoHS/CCC/EAC/CB/RCM
WARRANTY	3 years

DC OUTPUT	MAX LOAD (A)	MAX OUTPUT (W)
+3.3V	15	100
+5V	15	
+12V	62	744
+5VSb	2.5	12.5
-12V	0.3	3.6

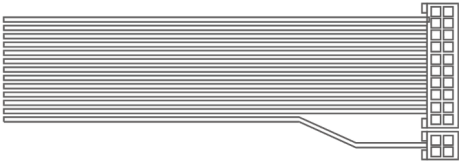
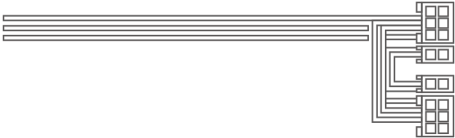


POWER SUPPLY
PS-700FK

CABLE INFORMATION

CONNECTORS	300W	400W
ATX Cable 24-pin (Motherboard) 	600 mm x 1	550 mm x 1
ATX 12V Cable 8-pin (4+4 CPU) 	650 mm x 1	650 mm x 1
PCI-E Cable (6 GPU) 	550 mm x 1	0
PCI-E Cable (6+2 GPU) 	0	550 + 150 mm x 1
SATA IDE Cable (SSD/HDD/Fan) 	500 + 150 mm x 2	0
SATA IDE Cable (SSD/HDD/Fan) 	500 + 150 mm x 1	350 + 150 mm x 2

CABLE INFORMATION

CONNECTORS	500W 550W	600W	650W 700W 750W
ATX Cable 24-pin (Motherboard) 	600 mm x 1	600 mm x 1	650 mm x 1
ATX 12V Cable 8-pin (4+4 CPU) 	650 mm x 1	650 mm x 1	650 mm x 1
PCI-E Cable (6+2 GPU) 	550 + 150 mm x 1	550 + 150 mm x 1	600 + 150 mm x 1
SATA IDE Cable (SSD/HDD/Fan) 	500 + 150 mm x 2	0	0
SATA IDE Cable (SSD/HDD/Fan) 	0	550 + 150 mm x 2	500 + 150 mm x 2

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 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.

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



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