ACK

SERIES

80 PLUS SILVER

Features:

- ATX3.1 AND PCIe 5.1 ready
- 12V-2x6 DC cable
- DC-DC converter
- Embossed DC cable
- Cybenetics and 80 PLUS Silver certified
- Teapo electrolyte capacitor
- 7-year warranty
- Multiple protections: OVP/OPP/SCP/OCP/UVP/OTP

TEAPO ELECTROLYTE CAPACITORS

14 CM HYDRAULIC BEARING FAN

CYBENETICS SILVER 230v

80 PLUS SILVER 230V EU

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.

ACK 750W SPECIFICATIONS

MODEL	PS-750AA7
POWER OUTPUT	750 W
INPUT VOLTAGE	200 - 240 V~
INPUT CURRENT	5 A MAX
INPUT FREQUENCY	50-60 Hz
EFFICIENCY	90.33% at typical load
DIMENSIONS (L x W x H)	145 x 150 x 86 mm
PACKAGE DIMENSION	280 x 190x 120 mm
MODULAR	Non-modular
CERTIFICATIONS	Cybenetics Silver, 80 PLUS Silver
PFC	Active PFC
FAN SIZE	140 mm hydraulic bearing
PROTECTIONS	OVP/OPP/SCP/OCP/UVP/OTP
REGULATORY	EAC/CE/FCC/UKCA/RoHS
CIRCUIT STRUCTURE	DC-DC, Double forward topology
N.W / G.W	
WARRANTY	7 years

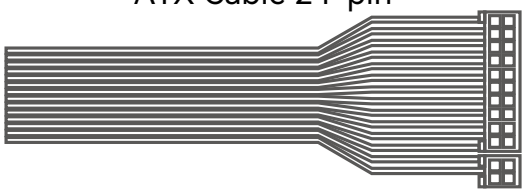
DC OUTPUT	MAX LOAD (A)	MAX OUTPUT (W)
+3.3V	20	100
+5V	20	
+12V	62.5	750
+5VSb	3	15
-12V	0.3	3.6

ACK 850W SPECIFICATIONS

MODEL	PS-850AA7
POWER OUTPUT	850 W
INPUT VOLTAGE	200 - 240 V~
INPUT CURRENT	5 A MAX
INPUT FREQUENCY	50-60 Hz
EFFICIENCY	90.47% at typical load
DIMENSIONS (L x W x H)	145 x 150 x 86 mm
PACKAGE DIMENSION	280 x 190x 120 mm
MODULAR	Non-modular
CERTIFICATIONS	Cybenetics Silver, 80 PLUS Silver
PFC	Active PFC
FAN SIZE	140 mm hydraulic bearing
PROTECTIONS	OVP/OPP/SCP/OCP/UVP/OTP
REGULATORY	EAC/CE/FCC/UKCA/RoHS
CIRCUIT STRUCTURE	DC-DC, Double forward topology
N.W / G.W	
WARRANTY	7 years

DC OUTPUT	MAX LOAD (A)	MAX OUTPUT (W)
+3.3V	20	100
+5V	20	
+12V	70.8	849.6
+5VSb	3	15
-12V	0.3	3.6

ACK SILVER CABLE INFORMATION

CABLE	LENGTH (± 10 mm)	QUANTITY
ATX Cable 24-pin 	495	1
ATX12V Cable 8-pin (4+4) 	560 + 150	1
12V-2X6 	670	1
PCI-E Cable 8-pin (6+2) 	520	2
SATA Cable + MOLEX (4 pin) 	340 +150 + 150	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 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:
Please refer to your motherboard and GPU manuals for specific power requirements.

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