XTR

FULL MODULAR PSU

550W
650W
750W
850W
1050W
User Manual

XFX

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XFX XTR Series Power Supply Unit

User Manual

Modular Cable Set

AC Power Cord

The Wattage you see isn't always the wattage you get.

Some brands tweak tests to get great wattage ratings, but in reality, they deliver much lower max wattages. Don't be fooled by wattage tricks. Below are examples of how we guarantee our wattage.

Continuous Power

Wattage and heat go hand-in-hand. Other PSUs claim a certain wattage by using unrealistic testing environments like 25°C, but in real settings, they might reach much lower wattages. XFX PSUs guarantee the advertised wattage, even at well above standard operating conditions at 50°C.

SolidLink™ Technology

SolidLink™ technology allows XFX PSUs to drastically reduce the wires inside. Other PSUs have numerous wired internal components, which generate heat, wasting energy and decreasing efficiency.

Efficient Power Use

80 Plus Gold certified means that this XFX PSU has up to 90% power efficiency at typical load.

Extreme Heat Tested Capacitors

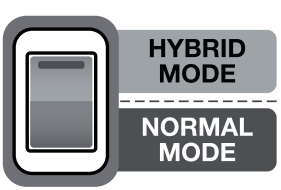
Internal PC operating temperature is around 35°C but the internal PSU temperature can be much higher. XFX uses all high-quality capacitors rated to withstand up to 105°C. While some competitors claim to use Japanese capacitors, they may only be rated for 85°C, which can shorten the usable life of a PSU.

Smart Sensors

All XFX PSUs come with automatic output protection systems to protect you and your computer. This includes Total Power Protection (OPP), Over Voltage Protection (OVP), Over Current Protection (OCP), Short Circuit Protection (SCP), and Over Temperature Protection (OTP)

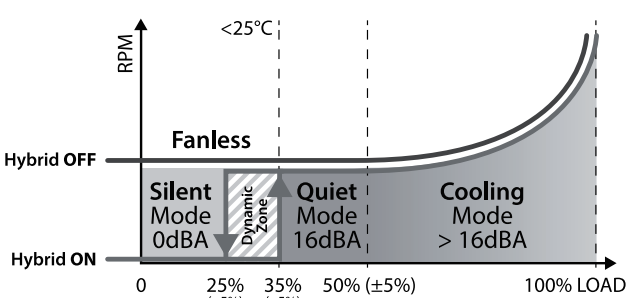
Hybrid Fan Control

Hybrid mode, when activated, allows the PSU to operate silently until it reaches 20% load or 25°C. Then it switches to Quiet Mode (only 16dBA) until reaching 50% load which switches to Cooling Mode to cool the PSU appropriately.



Important Note!

When Hybrid Mode is ON the fan will not be on initially. This does not indicate fan failure, it will turn on automatically when needed.



DC to DC Converter Design
Provides superior Dynamic response, greater system stability and maximize the 12VDC rail output.

Conductive Polymer Aluminum Solid Electrolytic Capacitors
Ensures operational stability at extreme conditions.

Active Power Factor Correction [99% PF Typical]
The “active” solution is the professional solution to power factor correction to reduce line loss and power distortion.

High +12V Output
Enhances +12V current capability increases utilization possibilities and ensures there is enough power to support the system’s +12V hungry components.

Multi-GPU Technologies Supported
6-Pin & 8-Pin PCI-E connectors to support all GPU platforms

All-in-One DC Cabling Design
Supports PC, IPC, workstations and server systems.

Universal AC Input [Full Range]
Plug and run safely anywhere in the world.

5 Year Limited Warranty[1]
Our commitment to superior quality.

1 European customers must register their product on www.xfxforce.co.uk within 30 days of purchase to upgrade their standard 3 year warranty to a 5 year extended warranty.

WARNING! IMPORTANT SAFETY NOTES

NEVER, under any circumstances, open the power supply unit. High voltages inside can be hazardous and dangerous. “WARRANTY IS VOID” once the cover is removed.

DO NOT insert any objects into the fan grill or ventilation area of the power supply unit.

DO NOT place any objects in front of the fan or any ventilation area of the power supply unit.

Keep the power supply unity in a dry environment, away from humidity.

The power supply unit is for integration into a computer system and not intended for external or outdoor usage.

Specifications / DC Cable & Connectors

Model		XFX XTR 550W	XFX XTR
Intel Specifications			
Dimensions (L x W x H)			170mm x 150mm
PF Correction			
Fan Type			
Operating Temp.			
Relative Humidity			
Protection Features			Over Power / Over Voltage
Safety Approvals			
EMC			
Hazardous Materials			
Efficiency			80PLUS®
AC Input Range			
Frequency			
Input Current @ 100~240 VAC		9.5 - 4.5 Amps (rms)	9.5 - 4.5 Amps
Max. Out	+3.3V	20A	20A
	+5V	20A	20A
	+12V	45A / 540W	54A / 648
	-12V	0.3A	0.3A
	+5VSB	2.5A	2.5A
	+3.3V & 5V Comb.	100W	100W
	Total Power	550W	650W
Line Regulation (all DC rails)		±1%	±1%
Load Regulation (all DC rails)		±5%	±5%
Mainboard (24/20 Pin)		1 x (610 mm)	1 x (610
CPU (8/4 Pin)		1 x (650 mm)	1 x (650
CPU (8 Pin)		1 x (650 mm)	1 x (650
PCI-E (6+2 Pin)		1 x (550 mm + 100 mm)	2 x (550 mm +
SATA		8	10
Perpheral (4 Pin)		6	6
FDD (4 Pin)		1	1

Specifications are correct at time of printing and may change without prior notice.Wire length

650W	XFX XTR 750W	XFX XTR 850W	XFX XTR 1050W
	ATX12V / EPS 12V		
x 86mm			
	Active, 0.99PF Typical		
	ADDA 135mm Fluid Dynamic Bering Fan		
	0 ~ 50ºC		
	20% ~ 80%		
	/ Under Voltage / Short Circuit / Over Current / Over Temperature		
	cTUVus / TUV / CB		
	CE / FCC / RCM		
	WEEE / RoHS		
	Gold / Energy Star / EUP Lot 6 Compliant / Haswell Ready		
	Full Range: 100 ~ 240 VAC (Max. 90 ~ 264 VAC)		
	50 / 60 Hz		
(rms)	9.5 - 4.5 Amps (rms)	11 - 5.5 Amps (rms)	12 - 6 Amps (rms)
	20A	25A	25A
	20A	25A	25A
W	62A / 744W	70A / 840W	87A / 1044W
	0.3A	0.5A	0.5A
	2.5A	3A	3A
	100W	125W	125W
	750W	850W	1050W
	±1%	±1%	±1%
	±5%	±5%	±5%
mm)	1 x (610 mm)	1 x (610 mm)	1 x (610 mm)
mm)	1 x (650 mm)	1 x (650 mm)	1 x (650 mm)
mm)	1 x (650 mm)	1 x (650 mm)	1 x (650 mm)
100 mm)	3 x (550 mm + 100 mm)	4 x (550 mm + 100 mm)	4 x (550 mm + 100 mm)
	10	10	12
	6	6	6
	1	1	1

within ±5% tolerance.

Power Supply Removal

Please first read “Warnings! Important Safety Notes” on previous page.

Disconnect your PC from all AC sources. Make certain the system is turned OFF. If applicable, put the power supply unit’s AC power switch to “O” (off) position.

Open the PC case and if applicable, refer to your PC manufacturer’s User Manual.

Carefully disconnect all power supply unit’s DC wire harness connectors from the mainboard and all peripheral connectors.

Unscrew the mounting screws securing the power supply unit to the back of the PC case back panel.

Carefully remove the power supply unit from the PC system.

Power Supply Installation

Place the XFX power supply unit into the space provided in the case and secure the power supply unit to the back panel of the case with the 4 mounting screws provided in the accessory bag. Do not over tighten.

Depending on the type of computer case, correct mounting of the power supply will result with the fan side top cover facing the mainboard. This does not apply to all types of cases.

Mainboard connection:

- DO NOT force the connector into place, the connectors are “keyed” so can only fit one way. Make sure the connector lock is secure.

- Connect the mainboard end of the 20/24-Pin convertible connector to the mainboard. Depending on the mainboard, you may need to either attach or detach the

4-Pin module of the 20/24-Pin connector.

- Connect the +12V P4 connector and the EPS +12V connector, if applicable.

- If your system requires dual EPS +12V connectors, connect the 8-Pin connector to the mainboard.

Peripheral components connection:

- DO NOT force the connector into place, the connectors are “keyed” so can only fit one way. Make sure the connector lock, if applicable, is secure.

- Connect the Easy Swap Connectors to the power receptor of the peripheral.

- ONLY use the supplied cable set of the unit. Using Cables that were not included with the power supply unit from this series may lead to defects

Troubleshooting

If the power supply unit fails to function properly, please go through the checklist below.

- Check to make sure the AC cord is properly connected to the AC source and the power supply unit.

- Check to make sure the AC source is ON.

- Check to make sure the AC on/off switch on the back panel of the power supply unit in the “I”, on position.

- Check and secure all mainboard and peripheral connectors.

- The AC on/off switch on the back of the power supply unit can be toggled between “I” and “O” a few times with a 0.5 second delay in between to make sure the power supply is reset.

If you are sill experiencing difficulties to get the power supply unit to function properly, please visit www.xfxforce.com for further technical support instructions.

Notes

The power supply is a “pull” technology, which only provides the power as demanded by the mainboard and components.

- If there is a mainboard malfunction, the power supply will not turn on.
- Peripheral component malfunction may result in power supply shut down.

European owners must register this product at www.xfxforce.co.uk to activate their **Free Warranty Upgrade** from 3 years to 5 years.

Limited Warranty & Disclaimer

The XFX warranty covers the Pro Series power supplies for a period of sixty (60) months from the date of purchase against defects in materials or workmanship. During the guarantee period, XFX maintains the discretion to either repair or replace with parts in similar or equal performance, provided that:

- The product is returned to the power of purchase, postage prepaid.
- The product was not misused according to its original intended purposes.
- The product was not damaged due to acts of nature such as lightening, flood or fire.
- The product's cover was never removed and the warranty sticker not broken.

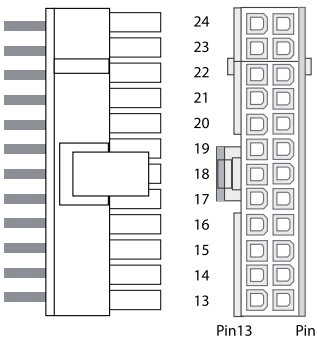
Warranty terms may vary between different geographic regions.[1] Please visit our homepage www.xfxforce.com for further details.

All efforts have been made to ensure accuracy of the information. XFX assumes no liability, expressed or implied, for any damage(s) occurring to your components as a result of mistake or omission in power supply removal and installation guide or due to defect or failure of the product. XFX assumes no liability, expressed or implied, for the use of this product and damage(s) caused by the use of this product to other devices in a computer due to failure of the product.

1 European customers must register their product on www.xfxforce.co.uk within 30 days of purchase to upgrade their standard 3 year warranty to a 5 year extended warranty.

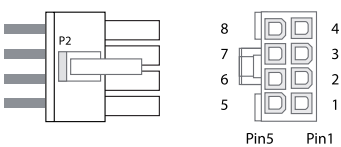
DC Power Connectors

24/20 Pin Main Power Connector



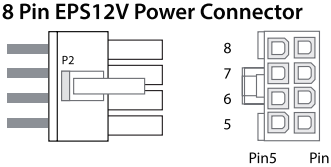
COM	Black	24	12	Orange	+3.3VDC
+5VDC	Red	23	11	Yellow	+12VDC
+5VDC	Red	22	10	Yellow	+12VDC
+5VDC	Red	21	9	Purple	+5VSB
NC	NC	20	8	Gray	PWR_OK
COM	Black	19	7	Black	COM
COM	Black	18	6	Red	+5VDC
COM	Black	17	5	Black	COM
PS_ON#	Green	16	4	Red	+5VDC
COM	Black	15	3	Black	COM
-12VDC	Blue	14	2	Orange	+3.3VDC
+3.3VDC	Orange	13	1	Orange	+3.3VDC

4/8-pin ATX12V/EPS12V Power Connector



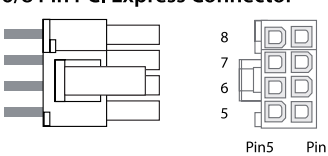
+12VDC	Yellow	8	4	Black	COM
+12VDC	Yellow	7	3	Black	COM
+12VDC	Yellow	6	2	Black	COM
+12VDC	Yellow	5	1	Black	COM

8 Pin EPS12V Power Connector



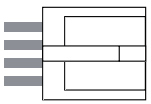
+12VDC	Yellow	8	4	Black	COM
+12VDC	Yellow	7	3	Black	COM
+12VDC	Yellow	6	2	Black	COM
+12VDC	Yellow	5	1	Black	COM

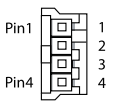
6/8 Pin PCI Express Connector



COM	Black	8	4	Black	COM
COM	Black	7	3	Yellow	+12VDC
COM	Black	6	2	Yellow	+12VDC
COM	Black	5	1	Yellow	+12VDC

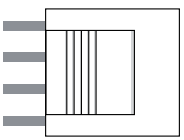
Floppy Drive Power Connector

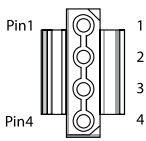




1	Red	+5VDC
2	Black	COM
3	Black	COM
4	Yellow	+12VDC

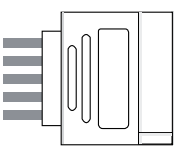
Peripheral Power Connector

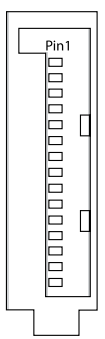




1	Yellow	+12VDC
2	Black	COM
3	Black	COM
4	Red	+5VDC

Serial ATA Connector





1	Orange	+3.3VDC
2		+3.3VDC
3		+3.3VDC
4	Black	COM
5		COM
6		COM
7	Red	+5VDC
8		+5VDC
9		+5VDC
10	Black	COM
11		COM
12		COM
13	Yellow	+12VDC
14		+12VDC
15		+12VDC

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