



**POWERFUL . STABLE . SILENT .**

**SWITCHING POWER SUPPLY**

**USER MANUAL**

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## INTRODUCTION:

### Welcome to the world of XCLIO PSU

**XCLIO PSU are using industrial standard as design concept to bring you the best PSU available in the market**

The overwhelming popularity of the personal computer originated with IBM's compatible design had been a main stream in computer world. Starting with the AT then the current widely available and used ATX design, so we see the evolution from AT to ATX and still continue to offering the best quality PSU (Power Supply Unit) to our customers.

With continuing research and development, XCLIO keeps offering the latest technology that enhances the use of components in PC system (i.e. CPU, Hard Drives, video card, etc).

1. Intel and AMD continue to introduce new processors that exponentially increase computing capabilities.
2. Manufacturers of hard drives are providing drives with larger capacity, increased cache speeds and even the core spin speed per minute has increased to 15,000RPM for SATA drives.
3. Both nVIDIA and ATI manufacturers of video cards have increased their graphic performance while requiring faster and larger memory capacity.

XCLIO R&D team combines the expertise and ideas and our designs are verified against guidelines from the CE/FCC testing lab, temperature-testing lab, noisy testing lab, so we can achieve the following:

01. Unique Design
02. Super Silent
03. Against Overheat
04. Worldwide Safety Regulations
05. Industrial Standard Quality.
06. Advanced spec based on Intel latest system standard.
07. Fully Support AMD Multi-Core Processors as recommend by AMD.
08. Perfect for nVidia and ATI high performance graphic cards.
09. NVIDIA SLI Certified and future-proof



For company information, please check out XCLIO website: <http://www.xclio.com>

## XCLIO TECHNOLOGY:

XCLIO R&D team invested lots effort for our latest super high wattage PSU, XCLIO PSU will bring your PC with **continuous total output power** always in 100% sufficient wattage, different wattage and models of our PSU's **continuous total output power** is limit by our latest Technology and components, so you can be sure XCLIO PSU you bought is top choice with peace of mind buying experience.

[www.xclio.com](http://www.xclio.com)

## PRODUCT FEATURES:

- ☆ Including the mainstream Serial ATA connector of the new generation hard drive transfer Interface.
- ☆ Auto voltage detection (95V.~250V.)
- ☆ Noise Reduction Technology and Active Intelligent Fan Speed Control.
- ☆ Environment-friendly and energy saving (Blue Angel & Energy Star).
- ☆ Over-Voltage Protection.
- ☆ Over-Current Protection.
- ☆ Over-Temperature Protection.
- ☆ Short-Circuit Protection.
- ☆ Perfect for professional or gaming user.
- ☆ Comply with Intel EPS +12V standard.
- ☆ Comply with AMD ATX-GEX standard.
- ☆ Cable Management System
- ☆ NVIDIA SLI Ready certified
- ☆ Intel ATX V2.2 - 85+% efficiency
- ☆ Full range active PFC
- ☆ 14cm cooling fan with safety fan grill

## SPECIAL FEATURES:

### DUAL INDEPENDENT TRANSISTOR CIRCUIT SYSTEM

XCLIO R&D team's latest innovation, the technology and components used by industrial standard PSU offering most stable and high quality PSU for your professional PC systems, the PSU using dual transistor circuit components independently to stable and reduce the voltage loss when using high voltage consumed computer device, so the PSU can work at it's peak level to supply stabilize flow of voltage.

### SUPER SILENT

Using low rpm 14cm fan to reduce the noise level to the minimum and still taking care the over heating problems.

### SUPER COOLING

Temperature and intelligent voltage system are built in with the PSU to monitor and adjust the fan's spinning speed automatically, even when you shut down the system, the PSU fan will continue spinning till the internal temp. reach to stable temp. range.

### SUPER EFFICIENCY

XClío Greatpower series PSU are design and manufactur base on +3% & -3% for power output tolerance, 85+% efficiency will make sure your system working in a high efficiency condition

## WARRANTY NOTICE:

### XClío 2 Year Limited Warranty

#### A. Warranty Period

All new XClío PSU products are warranted for two(2) years from the date of purchase, except as noted.

Return PSU after service & repair will be warranted for the remain warranty period or twenty(20) days, whichever is longer.

#### B. Who Is Covered

This warranty is only apply with the original consumer purchaser. Proof of purchase is required for warranty service.

## **WARRANTY NOTICE:**

### **XClío One Year Limited Warranty**

#### **C. What Is Not Covered**

XClío warranty is not an unconditional guarantee for the length of the one year period of the warranty. XClío products are made under our exacting manufacturing standards. But, like any other product, they are not indestructible. Therefore, our warranty does not cover product damage that may result from abuse or mishandling of the products, nor does it cover incidental or consequential damage.

**Within the warranty period, the following conditions (or similar) are not covered by the warranty:**

1. Any product which has been modified without permission from XClío, or on which the serial number or warranty sticker has been defaced, modified, or removed.
2. Normal wear and tear.
3. Damage, deterioration or malfunction resulting from:  
Accident, abuse, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification or failure to follow instructions included with the product.
  - Repair or attempted repair by anyone not authorized by XClío.
  - Shipping or transport damage (claims must be made with the carrier).
  - Any other cause which does not relate to a product defect.
4. Cartons, cases, batteries, cabinets, tapes, accessories or other consumables used with this product.
5. XClío does not warrant that this product will meet your requirements. It is your responsibility to determine the suitability of this product for your purpose.
6. Removal or installation charges.
7. Shipping charges.
8. Any incidental charges.

#### **D. Exclusion Of Damages**

XClío's sole obligation and liability under this warranty is limited to the repair or replacement of a defective product at our option. XClío shall not, in any event, be liable for any incidental or consequential damage, including but not limited to damages resulting from interruption of service and loss of business, or for liability in tort relating to this product or resulting from its use or possession.

#### **E. Limitations Of Implied Warranties**

There are no other warranties, expressed or implied, including but not limited to those of merchantability or fitness for a particular purpose. The duration of implied warranties is limited to the warranty length specified in section A.

#### **F. Local Law And Your Warranty**

This warranty gives you specific legal rights. You may also have other rights granted under local law. These rights may vary.

#### **G. Obtain Technical Support.**

Please contact your local dealer if you need any assistance & supports, or you can visit XClío online support page at [www.xclio.com](http://www.xclio.com) for details and contact information.

#### **H. For Warranty Service.**

In the event that warranty repair or replacement is required, XClío will request and you must provide proof of purchase (store receipt or invoice) in order to receive warranty service. Please contact your local dealer if you need any assistance & supports.

**OUTPUT:****GREATPOWER X14S4P3 – 500W (ATX V2.2 - FULL RANGE 100V-240V + ACTIVE PFC)**

VOLTAGE	+5V	+3.3V	+12V1	+12V2	+12V3	-12V	+5Vsb
MAX LOAD	28.0A	30.0A	18.0A	18.0A	16.0A	0.8A	3.0A
MIN LOAD	2.0A	0.5A	1.0A	1.0A	1.0A	0.0A	0.0A
PEAK LOAD	---	---	---	---	---	---	3.5A
REGULATION	+5,-4%	+5,-3%	+5,-4%	+5,-4%	+5,-4%	+9,-5%	+5,-3%
RIPPLE& NOISE (mV)	50mV	50mV	120mV	120mV	120mV	120mV	50mV

Continuous total output power is 500W max.

The combined power of +5V and +3.3V is 140W max.

**PSU Cable Set:**

20+4pins, 1 x PCI express & 4 pins Intel MB power connector

**Cable Management System (6 x cables set):**

Cable 1 & 2 > 3PCS x 4 pins molex + 1PC x 4 pins floppy

Cable 3 & 4 > 1PC x 6 pins PCI express

Cable 5 & 6 > 2PCS x SATA

**GREATPOWER X14S4P3 – 550W (ATX V2.2 - FULL RANGE 100V-240V + ACTIVE PFC)**

VOLTAGE	+5V	+3.3V	+12V1	+12V2	+12V3	-12V	+5Vsb
MAX LOAD	28.0A	30.0A	18.0A	18.0A	16.0A	0.8A	3.0A
MIN LOAD	2.0A	0.5A	1.0A	1.0A	1.0A	0.0A	0.0A
PEAK LOAD	---	---	---	---	---	---	3.5A
REGULATION	+5,-4%	+5,-3%	+5,-4%	+5,-4%	+5,-4%	+9,-5%	+5,-3%
RIPPLE& NOISE (mV)	50mV	50mV	120mV	120mV	120mV	120mV	50mV

Continuous total output power is 550W max.

The combined power of +5V and +3.3V is 140W max.

**PSU Cable Set:**

20+4pins, 1 x PCI express & 4 pins Intel MB power connector

**Cable Management System (6 x cables set):**

Cable 1 & 2 > 3PCS x 4 pins molex + 1PC x 4 pins floppy

Cable 3 & 4 > 1PC x 6 pins PCI express

Cable 5 & 6 > 2PCS x SATA

**OUTPUT:****GREATPOWER X14S4P4 – 600W (ATX V2.2 - FULL RANGE 100V-240V + ACTIVE PFC)**

VOLTAGE	+5V	+3.3V	+12V1	+12V2	+12V3	+12V4	-12V	+5Vsb
MAX LOAD	28.0A	30.0A	18.0A	18.0A	18.0A	18.0A	0.8A	3.0A
MIN LOAD	2.0A	0.5A	1.0A	1.0A	1.0A	1.0A	0.0A	0.0A
PEAK LOAD	---	---	---	---	---	---	---	3.5A
REGULATION	+5,-4%	+5,-3%	+5,-4%	+5,-4%	+5,-4%	+5,-4%	+9,-5%	+5,-3%
RIPPLE& NOISE (mV)	50mV	50mV	120mV	120mV	120mV	120mV	120mV	50mV

Continuous total output power is 600W max.

The combined power of +5V and +3.3V is 180W max.

**PSU Cable Set:**

20+4pins, 2 x PCI express & 4 pins Intel MB power connector (Split from 8pins server MB connector)

**Cable Management System (7 x cables set):**

Cable 1 & 2 > 3PCS x 4 pins molex + 1PC x 4 pins floppy

Cable 3 & 4 > 1PC x 6 pins PCI express

Cable 5 & 6 > 2PCS x SATA

Cable 7 > Modular connector for 8 pins server or 4pins Intel MB power (4 + 4 connectors)

**GREATPOWER X14S4P4 – 650W (ATX V2.2 - FULL RANGE 100V-240V + ACTIVE PFC)**

VOLTAGE	+5V	+3.3V	+12V1	+12V2	+12V3	+12V4	-12V	+5Vsb
MAX LOAD	28.0A	30.0A	18.0A	18.0A	18.0A	18.0A	0.8A	3.0A
MIN LOAD	2.0A	0.5A	1.0A	1.0A	1.0A	1.0A	0.0A	0.0A
PEAK LOAD	---	---	---	---	---	---	---	3.5A
REGULATION	+5,-4%	+5,-3%	+5,-4%	+5,-4%	+5,-4%	+5,-4%	+9,-5%	+5,-3%
RIPPLE& NOISE (mV)	50mV	50mV	120mV	120mV	120mV	120mV	120mV	50mV

Continuous total output power is 650W max.

The combined power of +5V and +3.3V is 180W max.

**PSU Cable Set:**

20+4pins, 2 x PCI express & 4 pins Intel MB power connector (Split from 8pins server MB connector)

**Cable Management System (7 x cables set):**

Cable 1 & 2 > 3PCS x 4 pins molex + 1PC x 4 pins floppy

Cable 3 & 4 > 1PC x 6 pins PCI express

Cable 5 & 6 > 2PCS x SATA

Cable 7 > Modular connector for 8 pins server or 4pins Intel MB power (4 + 4 connectors)

**OUTPUT:****GREATPOWER X14S4P4 – 700W (ATX V2.2 - FULL RANGE 100V-240V + ACTIVE PFC)**

VOLTAGE	+5V	+3.3V	+12V1	+12V2	+12V3	+12V4	-12V	+5Vsb
MAX LOAD	28.0A	30.0A	18.0A	18.0A	18.0A	18.0A	0.8A	3.0A
MIN LOAD	2.0A	0.5A	1.0A	1.0A	1.0A	1.0A	0.0A	0.0A
PEAK LOAD	---	---	---	---	---	---	---	3.5A
REGULATION	+5,-4%	+5,-3%	+5,-4%	+5,-4%	+5,-4%	+5,-4%	+9,-5%	+5,-3%
RIPPLE& NOISE (mV)	50mV	50mV	120mV	120mV	120mV	120mV	120mV	50mV

Continuous total output power is 700W max.

The combined power of +5V and +3.3V is 180W max.

**PSU Cable Set:**

20+4pins, 2 x PCI express & 4 pins Intel MB power connector (Split from 8pins server MB connector)

**Cable Management System (7 x cables set):**

Cable 1 & 2 > 3PCS x 4 pins molex + 1PC x 4 pins floppy

Cable 3 & 4 > 1PC x 6 pins PCI express

Cable 5 & 6 > 2PCS x SATA

Cable 7 > Modular connector for 8 pins server or 4pins Intel MB power (4 + 4 connectors)

**GREATPOWER X14S4P4 – 750W (ATX V2.2 - FULL RANGE 100V-240V + ACTIVE PFC)**

VOLTAGE	+5V	+3.3V	+12V1	+12V2	+12V3	+12V4	-12V	+5Vsb
MAX LOAD	28.0A	30.0A	18.0A	18.0A	18.0A	18.0A	0.8A	3.0A
MIN LOAD	2.0A	0.5A	1.0A	1.0A	1.0A	1.0A	0.0A	0.0A
PEAK LOAD	---	---	---	---	---	---	---	3.5A
REGULATION	+5,-4%	+5,-3%	+5,-4%	+5,-4%	+5,-4%	+5,-4%	+9,-5%	+5,-3%
RIPPLE& NOISE (mV)	50mV	50mV	120mV	120mV	120mV	120mV	120mV	50mV

Continuous total output power is 750W max.

The combined power of +5V and +3.3V is 180W max.

**PSU Cable Set:**

20+4pins, 2 x PCI express & 4 pins Intel MB power connector (Split from 8pins server MB connector)

**Cable Management System (7 x cables set):**

Cable 1 & 2 > 3PCS x 4 pins molex + 1PC x 4 pins floppy

Cable 3 & 4 > 1PC x 6 pins PCI express

Cable 5 & 6 > 2PCS x SATA

Cable 7 > Modular connector for 8 pins server or 4pins Intel MB power (4 + 4 connectors)

**OUTPUT:**

**GREATPOWER X14S12P4 – 850W (ATX V2.2 - FULL RANGE 100V-240V + ACTIVE PFC)**

VOLTAGE	+5V	+3.3V	+12V1	+12V2	+12V3	+12V4	-12V	+5Vsb
MAX LOAD	30.0A	30.0A	18.0A	18.0A	30.0A	30.0A	0.8A	3.0A
MIN LOAD	2.0A	0.5A	1.0A	1.0A	1.0A	1.0A	0.0A	0.0A
PEAK LOAD	---	---	---	---	---	---	---	3.5A
REGULATION	+3,-3%	+3,-3%	+3,-3%	+3,-3%	+3,-3%	+3,-3%	+9,-5%	+3,-3%
RIPPLE& NOISE (mV)	50mV	50mV	120mV	120mV	120mV	120mV	120mV	50mV

Continuous total output power is 850W max.

The combined power of +5V and +3.3V is 180W max.

**PSU Cable Set:**

20+4PINS ATX

2 x PCI express 8PINS + 6PINS (Support nVIDIA 8800GTX)

**Cable Management System (7 x cables set):**

Cable 1 & 2 > 4PCS x 4 pins molex + 1PC x 4 pins floppy

Cable 3 & 4 > 1PC x 6 pins PCI express

Cable 5 & 6 > 4PCS x SATA

Cable 7 > Modular connector for 8 pins server or 4pins Intel MB power (4 + 4 connectors)

**Special Note:**

4pins Intel MB power connector - split from the modular 8pins server MB connector



**Please make sure system and Power Supply are off before any installation.**

**Installation under professional supervision is strongly recommended.**

1. Computer doesn't boot up after installing the new Power Supply  
(There are many reasons that would cause system boot failure. The descriptions and solutions here are only from the PSU perspective)

Answer:

- (1) Check to see if power cable is connected properly (check whether it connects to a wall outlet and is there any power outage. )
  - (2) Is the black power switch on the power supply in the "I" position?
  - (3) Is the power switch cable between the system and the motherboard properly install?
  - (4) -5V output has been cancelled in ATX 1.0 and later versions, but the old motherboard still detects this item while booting. Try to update BIOS firmware to solve this problem. (This product is suitable to use on ATX1.3 or higher version.)
  - (5) Meridian Technology Corp. has added -5V output onto Power Supply to avoid the above content (4) problem.
2. Adjust the voltage adjusting button located on the back of the PSU (as shown below) based on the voltage of local electricity service. If this button is not available, then normally it is full range or single voltage. Hence, you do not need to adjust it (if unsure, please consult with a local dealer).
  3. There is no 4-PIN (position 2) CPU power connector on my motherboard. Can I still use this product?

Answer:

If you can not find this connector on your motherboard, then it means it is not required. This does not affect the power supply system's booting function. If the motherboard has this connector, then you need to plug it in for boot up.

4. What is covered under the warranty and what are the conditions?

Answer:

Please refer to the product warranty card or contact your dealer. Within the reasonable coverage that is specified in the card, the service and warranty are free.

5. If you have any technical or any general question, please feel free to contact us from the following e-mail address:  
[support@xclio.com](mailto:support@xclio.com)  
[sales@xclio.com](mailto:sales@xclio.com)