

**Toughpower™ 700W / 800W**  
*ATX 12V 2.2 & EPS 12V 2.91 Version*

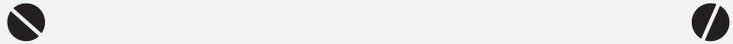


User Manual  
Gebrauchsanleitung  
Gui d'utilisation  
Manual del usuario  
Manuale d'uso  
使用手冊  
用戶手冊  
ユーザーマニュアル  
Руководство пользователя  
Kullanım klavuzu

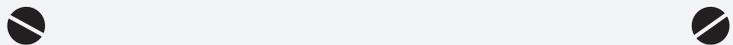
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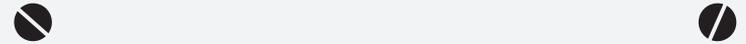
## 1. Warnings and Caution



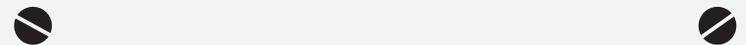
1. Do not unplug the AC power cord when the power supply is in use. Doing so may cause damage to your components.
2. Do not place the power supply in a high humidity and/or temperature environment.
3. High voltages exist in the power supply. Do not open the power supply case unless you are an authorized service technician or electrician. Doing so will void the warranty.
4. PSU should be powered by the source indicated on the rating label.
5. All warranties and guarantees will be voided, if failure to comply with any of the warnings and cautions covered in this manual.



## 2. Components Check



- **Toughpower 80Plus (Silver) 700W / 800W power supply unit**
- **User manual**
- **AC power cord**
- **Mounting screw x 4**
- **Silicone rubber mounting gasket x 1**
- **Cable strap x 4**



### 3. Power Connector Introduction

P/N	Model	Cable								
		20+4pin Main Connector	4pin +12V CPU Connector	8pin +12V CPU Connector	SATA Connector	Peripheral Connector	Floppy Connector	8pin PCI-E Connector	6pin PCI-E Connector	PCI-E (8 to 6) Connector
W0295	700W	1	1	1	6	5	1	2	2	2
W0296	800W	1	1	1	6	5	1	2	2	2

MODELS	Connector Type	Connectors & Cable length
	20+4pin	<b>1 x 20+4pin Main connector</b> (500mm)
	ATX 12V 4pin	<b>1 x ATX 12V 4pin connector</b> (500mm)
	EPS 12V 8pin	<b>1 x EPS 12V 8pin connector</b> (500mm)
	Molex & FDD	<b>2 x Peripheral &amp; 1 x FDD connectors</b> (500mm + 150mm + 150mm) <b>3 x Peripheral connectors</b> (500mm + 150mm + 150mm)
	SATA	<b>3 x S-ATA connectors</b> (500mm + 150mm + 150mm) <b>3 x S-ATA connectors</b> (500mm + 150mm + 150mm)
PCI-E 8/6pin	<b>1 x 8/6pin PCI-E connectors</b> (500mm + 150mm) <b>1 x 8/6pin PCI-E connectors</b> (500mm + 150mm)	

### 4. Installation Steps

Note: Make sure that your system is turned off and unplugged.  
Disconnect the AC power cord from your old power supply.

1. Open your computer case; please refer to the direction in your case manual.
2. Install the PSU into the case with the four screws provided.
3. Connect the 24 pin Main Power Connector to your motherboard and peripheral. If your motherboard uses a 20-pin connector, detach the 4-pin attachment on the 24-pin connector.  
Note: The detachable 4-pin section cannot be used in place of a 4-pin +12V connector.
4. Connect the 8-pin or 4-pin connector for the CPUs.
5. Connect other peripheral power connectors to devices such as hard drives, optical drives, etc.
6. Close your computer case and connect the AC power cord to the power supply AC inlet.

## 5. Product Features

- Stable 700W / 800W continuous output.
- 80 Plus (Silver) certified.
- High efficiency (88% @ 115V & 230V input).
- Intel ATX 12V 2.2 and EPS 12V 2.91 Compatible.
- Universal AC input 100~240V automatically scans and detects the correct voltage for different country.
- Supports Dual Core CPU / Quad Core CPU / NVIDIA SLI & Quad SLI and all Multi-Core GPU technologies.
- Active PFC (PF>0.99).
- High reliability: MTBF>120,000 hours.
- Protections: Over Current, Over Voltage, and Short-Circuit protection.
- Safety / EMI Approvals: UL, CUL, TUV, CE, FCC, BSMI, GOST certified

## 6. Output Specification

INPUT VOLTAGE: 100V-240V~, FREQUENCY: 50HZ-60HZ								
MODEL	Voltage	+3.3V	+5V	+12V1	+12V2	-12V	+5Vsb	TOTAL POWER
700W	MAX Load	24A	30A	30A	35A	0.5A	3.5A	700W
	Combined Wattage	170W		672W		6W	17.5W	
800W	MAX Load	24A	30A	30A	40A	0.5A	3A	800W
	Combined Wattage	150W		792W		6W	15W	

## 7. Total Protection

Over Voltage Protection W0295 (700W) / W0296 (800W)	
Voltage Source	Protection Point
+3.3V	3.76V-4.8V
+5V	5.6V-7V
+12V	13.5V-16.5V

### Over Current Protection

W0295 (700W)	
Output Voltage	Max. over current limit
+3.3V	35.0A
+5V	40.0A
+12V1 DC	40.0A
+12V2 DC	45.0A

W0296 (800W)	
Output Voltage	Max. over current limit
+3.3V	35.0A
+5V	40.0A
+12V1 DC	40.0A
+12V2 DC	55.0A

### Short Circuit Protection

Activated when any DC rails short circuited.

## 8. EMI & SAFETY

### EMI Regulatory

W0295 (700W)	FCC Part 15 Subpart J, Class B 115 Vac operation
W0296 (800W)	CISPR 22 Class B 230 Vac operation

### SAFETY Standards

W0295 (700W)	UL, CUL, CE, FCC, BSMI and GOST certified.
W0296 (800W)	

## 9. Environments

### Temperature Range

Operating	+10°C to +40°C
Storage	-10°C to +60°C

### Humidity

Operating	5-95% RH, Non-condensing
Storage	5-95% RH, Non-condensing

## 10. Trouble-Shooting

If the power supply fails to function properly, please follow the troubleshooting guide before application for service:

1. Is the power cord plugged properly into electrical outlet and into the power supply AC inlet?
2. Please make sure all power connectors are properly connected to all the devices.
3. If connected to a UPS unit, is the UPS on and plugged in?

If the power supply is still unable to function properly after following the above instruction, please contact you local store or Tt branch office for after sales service. You may also refer to Thermaltake's website for more technical support:  
[www.thermaltake.com](http://www.thermaltake.com)