



# Toughpower Grand RGB 750W 80 PLUS GOLD Certified Full Modular Power Supply

Special Price  
**\$125.99** was  
~~\$139.99~~

## Product Images





**Thermaltake**  
Toughpower  
曜越科技股份有限公司

TOUGHPower GRAND SERIES  
POWER SUPPLY

TOUGHPower GRAND **RGB750W**

PART NUMBER: TPG-0750F-R

MODEL(型号/型號): TPG-750AH3FSG-R											
AC INPUT (交流輸入/交流輸入)	Input Voltage (輸入電壓/輸入電壓): 100V - 240V- Input Current (輸入電流/輸入電流): 10A Frequency (頻率/頻率): 50Hz - 60Hz										
DC OUTPUT (直流輸出/直流輸出)	<table border="1"> <tr> <td>+3.3V</td> <td>+5V</td> <td>+12V</td> <td>-12V</td> <td>+5VSB</td> </tr> <tr> <td>22A</td> <td>22A</td> <td>62.5A</td> <td>0.3A</td> <td>3A</td> </tr> </table>	+3.3V	+5V	+12V	-12V	+5VSB	22A	22A	62.5A	0.3A	3A
+3.3V	+5V	+12V	-12V	+5VSB							
22A	22A	62.5A	0.3A	3A							
Max Output Current (最大輸出電流/最大輸出電流)											
Max Output Power (最大輸出功率/最大輸出功率)	<table border="1"> <tr> <td>120W</td> <td>750W</td> <td>3.6W</td> <td>15W</td> </tr> </table>	120W	750W	3.6W	15W						
120W	750W	3.6W	15W								
Total Power (總輸出功率/總輸出功率)	750W										

**WARNING**  
READ THESE INSTRUCTIONS CAREFULLY BEFORE USING THIS POWER SUPPLY. NOT USER SERVICEABLE. RETURN TO SERVICE CENTER FOR REPAIR.

**ATTENTION**  
REPAIRS SHOULD BE PERFORMED BY A QUALIFIED SERVICE CENTER. DO NOT ATTEMPT TO REPAIR THIS POWER SUPPLY.

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**PELIGRO**  
LEA ESTE MANUAL DE INSTRUCCIONES ALTA TENSION. NO CONTIENE NI QUILLO REPARABLE. CONTACTE AL SERVICIO PARA SU REPARACION.

**CAUTION HAZARDOUS AREA**  
DO NOT REMOVE THIS COVER. TRAPPED SERVICE PERSONS ONLY. DO NOT REMOVE COMPONENTS INSIDE.

**警告**  
請勿開啟外蓋，避免觸電。  
維修人員請在開機前將此蓋上之指示外蓋。  
警告：請勿拆除此外蓋，避免觸電。  
維修人員請在開機前將此蓋上之指示外蓋。

REVISION(版本): A      Switching Power Supply(开关电源供应器/開關電源供應器)      Made in China(中國製造/中國製造)



## Short Description

Thermaltake, as the pioneer who incorporates RGB lights into PSU, has launched the Thermaltake Toughpower Grand RGB Gold Series, coming with a pre-installed, patented 256 Colors Riing 14 RGB fan with 5 lighting modes to choose from and built-in memory.

Featuring capacities ranging from 650W to 850W and 80 PLUS Gold certification, Toughpower Grand RGB Series adopts the highest quality components and fully modular design that always accommodate any mainstream build under any circumstances.

## Description

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## Features

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### One Button to Your Desired Color

By pressing the RGB lighting button, the fan color can be switched among a 256 Color RGB Cycle with variants including Solid Red, Green, Blue, White, and a LED Off mode. The fan is also constructed with a built-in memory function, saving the color applied and insuring the same color selection every time you boot your PC.

### Power Supply Fan Face-Up Placement for Better Cooling

With the face-up placement of the fan, users can freely gaze upon their patented circular 256 multi-colored RGB fan and at the same time obtaining additional performance by using the fan as a additional exhaust mechanism, repelling unwanted heat from your chassis. As the thermal image testing shown, the temperature of PSU and computer system will decrease around 3°C (5.4 °F) by placing PSU face-up.

### Riing 14 RGB Fan with Concentrated Compression Fan Blade

Riing 14 RGB fan blade is designed for high static pressure requirements of demanding applications; the concentrated compression blade is engineered to focus the weaker, inner circle of air outward, allowing the outer section to pressurize the air. The fan blades are optimized to enhance static pressure for an impressive cooling performance. Hydraulic bearings for silent operation guarantee ultra-low noise, and the anti-vibration mounting system strengthens the product's stability during operation. Moreover, In-mold injection anti-vibration rubber pads provide hassle-free usage for 80% protection coverage, including all four corners.

### Ultra Quiet Smart Zero Fan

Smart Zero Fan ensures zero noise when the fan operates below 20% working load to minimize audible noise. The fan will operate when the power supply working load over 20%. A switch is provided for those who prefer the fan to spin constantly.

### < 30 mV Low Ripple Noise

All ripples are lower than 30mV for high stability on +12V, +5V, or +3.3V from 0% to 100% load to ensure a high quality power supply. Low ripple noise will keep your performance-critical components, such as high-end graphics cards, to operate reliably for longer.

### Extremely Strict Voltage Regulation < ±2%

The voltage regulation of the PSU is set to no more than ±2% for major rails to meet the highest performance. The strict voltage regulation of the Toughpower Grand RGB Gold is better than Intel's standard

±5% for major rails and ±10% for -12V.

#### 100% High Quality Japanese 105°C/221°F Capacitors

100% high quality 105 °C (221 ° F) Japanese made capacitors which greatly improve the durability and offer the highest stability and reliability.

#### High Amperage Single +12V Rail & DC to DC Design

Toughpower Grand RGB 750W Gold is equipped with a powerful single +12V rail, eliminating the limitations caused by voltage distributions, delivering the power your CPU and VGA demand in any situations. Besides, with DC to DC design, the unit optimizes maximum energy harvest for computer systems, providing the best compatibility, conversion efficiency and stable voltage output.

#### Fully Modular Low-Profile Flat Cable

Fully modular Toughpower Grand RGB 750W Gold offers cable selection for users while powering the system at an advantageous voltage. Low-profile flat black cable can make cable management easier, reduce clutter and increase airflow inside the chassis.

#### 80 PLUS Gold Certified and Kaby Lake Ready

Deliver up to 90% efficiency under real world load conditions to promise lowest power losses. Additionally, Toughpower Grand RGB 750W Gold has been optimized to work with Intel's latest, Seventh-generation Kaby Lake processors to achieve maximum energy saving.

#### RGB Lighting Provides Best Aesthetics for All Chassis

Toughpower Grand RGB Gold Series is the best idea for users to go with when they are looking for an RGB PSU which permits remarkable functionality and aesthetics in all cases, especially Open Frame or Tower cases.

## Specifications

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P/N	PS-TPG-0750FPCGxx-R
Short P/N	TPG-0750F-R
Model	TPG-750AH3FSG-R
Type	ATX 12V v2.4 and EPS v2.92

Max. Output Capacity	750W
Peak Output Capacity	900W
Color	Black
Dimension ( W / H / D )	150mm(W) x 86mm(H) x 160mm(D)
PFC ( Power Factor Correction )	Active PFC
Power Good Signal	100-500 msec
Hold Up Time	> 16msec at 100% of full load
Input current	10A
Input Frequency Range	50Hz - 60Hz
Input Voltage	100V - 240V~
Operating Temperature	0°C to + 50°C
Operating Humidity	20% to 90%,non-condensing
Storage Temperature	-40°C to + 70°C
Storage Humidity	20% to 95%, non-condensing
Cooling System	14cm hydraulic bearing fan
Efficiency	Meet 80 PLUS®Gold at 115Vac input.
MTBF	120,000 hrs minimum
Safety Approval	CE/cTUVus/TÜV SÜD/FCC/CCC/BSMI/EAC
Protection	OVP,SCP,OPP,UVP,OTP,OCP
PCI-E Connector	4

\* Specifications are subject to change without notice.

\* The product picture(s) is only for your reference, it may differ from the actual product.

## Additional Information

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Brand	Thermaltake
SKU	PS-TPG-0750FPCGUS-R
Weight	9.0000
Color	Black
PSU Type	ATX
PSU Style	Modular
PSU Wattage	750W
PSU Efficiency	80 PLUS Gold
Vendor SKU/EAN	841163066713
Special Price	\$125.99

