



P/N: PS-TPG-0750FPCGxx-S



## TOUGHPOWER GRAND RGB 750W GOLD (RGB SYNC EDITION)



# Features

- Patented 256 colors Riing 14 RGB fan with five lighting modes, built-in memory and RGB sync function.
- Smart Zero Fan: Minimizes undesired noise.
- <30mV low ripple noise design.
- Extremely strict voltage regulation < ±2%
- Fully modular low-profile flat black cables.
- 100% high quality Japanese 105°C/221°F capacitors.
- 80 PLUS<sup>®</sup>Gold certified up to 90% efficiency.
- 10 year warranty
- 750W continuous output at 50°C/122°F operating environment.
- High amperage single +12V rail design.
- Intel C6/C7 states & ErP ready
- Built-in industry grade protections: OCP, OVP, UVP, OPP, SCP, OTP
- Dimension: 150mm(W)x86mm(H)x160mm(D).
- Safety approvals: CE/cTUVus/TÜV SÜD/FCC/CCC/BSMI/EAC certifications.
- Compatible with the latest Intel ATX 12V 2.4 & SSI EPS 12V 2.92 standards.



## TOUGHPOWER GRAND RGB 750W GOLD (RGB SYNC EDITION)

# Highlight Features





Synchronizing all RGB lighting devices on your system with the +12V RGB header. (+5V RGB header is not supported by this model)



## Sync All Your RGB

Compatible with: ASUS AURA SYNC, msi MYSTIC LIGHT, GIGABYTE RGB FUSION, BIOSTAR VIVID LED DJ and ASRock RGB LED ready motherboards.



## TOUGHPOWER GRAND RGB 750W GOLD (RGB SYNC EDITION)

# Highlight Features





RGB options available at your fingertips for easy use.



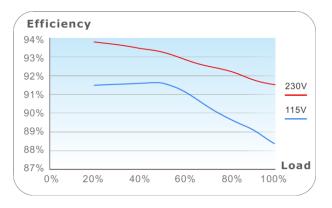
### Patented 256 Colors Riing 14 RGB Fan

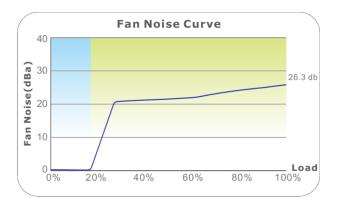
TOUGHPOWER GRAND RGB GOLD series features a patented 256 colors Riing 14 RGB fan with five lighting modes, LEDs off mode and built-in memory.

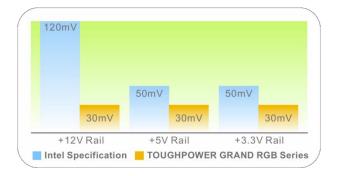


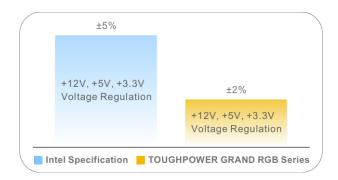
## TOUGHPOWER GRAND RGB 750W GOLD (RGB SYNC EDITION)

# Highlight Features









## **80 PLUS Gold Certified Efficiency**

Delivers top end efficiency under real world load conditions.

## Ultra Quiet Smart Zero Fan

Minimize undesired noise.

#### <30mV Low Ripple Noise Design

Top-end build quality with low ripple noise.

# Extremely Strict Voltage Regulation $< \pm 2\%$

Provides steady clean power through exceptional voltage stability.

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#### REV. A (2018.03)



## TOUGHPOWER GRAND RGB 750W GOLD (RGB SYNC EDITION)

# Highlight Features



#### **Fully Modular Low-Profile Flat Black Cables**

Makes cable management easier, reduces clutter and increases airflow inside the chassis.



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

Improves the durability and offers the highest stability and reliability.

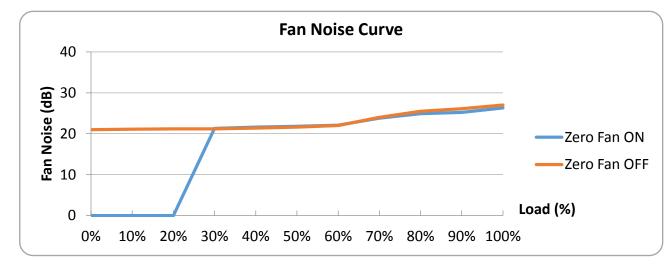


# High Amperage Single +12V Rail & DC to DC Design

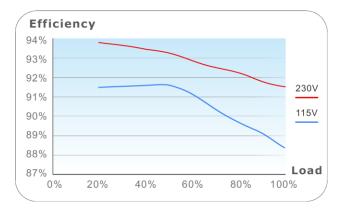
Powerful single +12V rail and DC to DC design for the best compatibility.



# Fan Noise



# ECO Design



### 80 PLUS®Gold Certified Efficiency

Delivers top end efficiency under real world load conditions.

#### Supports Energy Star 5.0\* energy standard

Toughpower Grand RGB Gold series is suitable for use in Energy Star-compatible computers.

#### **Supports Intel Deep Power Down C6 Status**

Helps your PC system operate more power efficiently.

#### **Corresponds to the EU directives on WEEE and RoHS**

Thermaltake considers its full impact on the environment during manufacturing and maintains green facilities to ensure Toughpower Grand RGB Gold series meets WEEE & RoHS requirements.



## Output Specification

AC Input	Input Voltage: 100V - 240V~ Input Current: 10A Frequency: 50Hz - 60Hz				
DC Output	+3.3V	+5V	+12V	-12V	+5VSB
Max Output Current	22A	22A	62.5A	0.3A	3A
Max Output Power	120W		750W	3.6W	15W
Total Power	750W				

# Total Output Connector

Connector						•	N C
	Main Power						
Mattaga	Connector	ATX 12V	SATA	PCI-E	Peripheral	FDD	RGB Sync
Wattage	(24Pin)	(4+4Pin)	(5Pin)	(6+2Pin)	(4Pin)	Adapter	Cable
750W	1	1	9	4	4	1	1

Wattage	Connector Type	Connector Quantity & Cable Length		
750W	Main Power (24pin)	1 x 24pin Main connector (600mm)		
	ATX 12V (4+4pin)	1 x ATX 12V 4+4pin connector (650mm)		
	PCI-E (6+2pin)	2 x PCI-E 6+2pin connectors (500mm + 150mm) 2 x PCI-E 6+2pin connectors (500mm + 150mm)		
	SATA	3 x SATA connectors (500mm + 150mm + 150mm) 3 x SATA connectors (500mm + 150mm + 150mm) 3 x SATA connectors (500mm + 150mm + 150mm)		
	Peripheral	4 x Peripheral connectors (500mm + 150mm + 150mm + 150mn		
	FDD Adapter	1 x Peripheral to FDD adapter cable (150mm)		
	RGB Sync Cable	1 x RGB Sync connector + 1 x RGB Sync header (570mm + 80mm		



GENERAL INFO					
P/N	PS-TPG-0750FPCGxx-S				
Model	TPG-750AH3FSGR				
Туре	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	Active PFC				
Power Good Signal	100-500 msec				
Hold-Up Time	> 16msec at 100% of full load				
AC INPUT					
Input Current	10A				
Input Frequency Range	50Hz - 60Hz				
Input Voltage	100V - 240V~				
	ENVIRONMENTAL				
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				
MISCELLANEOUS					
Efficiency	Meet 80 PLUS <sup>®</sup> Gold at 115Vac input.				
MTBF	120,000 hrs minimum				
Safety Approval	CE/cTUVus/TÜV SÜD/FCC/CCC/BSMI/EAC				
PCI-E CONNECTOR					
PCI-E 6+2pin	4				



# Total Protection

Voltage Source	Over Voltage Protection	Under Voltage Protection	Over Current Protection		
	Protection Point				
+3.3V	4.3Vmax Not lower than 2.0~2.4V		24.2A min.; 35.2A max.		
+5V	6.5Vmax	Not lower than 3.3~3.7V	24.2A min.; 35.2A max.		
+12V	15.5Vmax	Not lower than 8.5~9.5V	59.62A min.; 86.72A max.		
Over Power Protection	Protection at 110%~160% over peak load.				
Over Temperature Protection	Triggered by heating up TH3 thermistor to 85°C/185°F				
Short Circuit Protection	Activated when any DC rails short circuited.				