# TOUGHPOWER GF2 ARGB 750W

80 PLUS GOLD

# DATASHEET

**Patented**
**16.8 Million Colors**
Riing Duo RGB Fan & ARGB Side Panels

ASUS AURA SYNC

RGB

msi MYSTIC LIGHT SYNC

GIGABYTE RGB FUSION READY

**Smart Zero Fan**

**Low Ripple Noise**

**Fully Modular**
Flat Cables

80 PLUS GOLD

**100% Japanese**
Capacitors

**10 YEAR** Warranty

## Features

- Patented 16.8M colors Riing Duo 14 RGB Fan and ARGB side panels.
- Addressable RGB lighting Synchronization with main stream motherboards.
- Smart Zero Fan: Minimizes undesired noise at low to medium load.
- Digital control on primary side (PFC/LLC controller).
- <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®Gold certified up to 90% efficiency.
- 10 year warranty.
- 750W continuous output at 40°C/104°F operating environment.
- High efficiency Zero Cable Platform with premium build quality.
- 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/FCC/BSMI/EAC/S-Mark/C-TICK certifications.

## 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 | | | | |

## Connect Specification

| Connector / Wattage | Main Power Connector (24Pin) | ATX 12V (4+4Pin) | SATA (5Pin) | PCI-E (6+2Pin) | Peripheral (4Pin) | FDD Adapter |
|---|---|---|---|---|---|---|
| 750W | 1 | 2 | 9 | 4 | 4 | 1 |

| Wattage | Connector Type | Connector Quantity & Cable Length |
|---|---|---|
| 750W | Main Power (24pin) | 1 x 24pin Main connector (600mm) |
| | ATX 12V (8pin/4+4pin) | 1 x ATX 12V 8pin connector (650mm ) 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 + 150mm) 3 x SATA connectors (500mm + 150mm + 150mm + 150mm) 3 x SATA connectors (500mm + 150mm + 150mm + 150mm) |
| | Peripheral | 4 x Peripheral connectors (500mm + 150mm + 150mm + 150mm) |
| | Floppy Adapter | 1 x Peripheral to Floppy adapter cable (150mm) |

| GENERAL INFO | |
|---|---|
| P/N | PS-TPD-0750F3FAGx-2 |
| Model | TTP-750AH3FSG-A |
| 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 + 40°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®Gold at 115Vac input. |
| MTBF | 100,000 hrs minimum |
| Safety Approval | CE/cTUVus/TÜV/FCC/BSMI/EAC/S-Mark/C-TICK |
| **PCI-E CONNECTOR** | |
| PCI-E 6+2pin | 4 |

## Total Protection

| Voltage Source | Over Voltage Protection | Over Current Protection |
|---|---|---|
| | **Protection Point** | |
| +3.3V | 4.3Vmax | 36A  max. |
| +5V | 7Vmax | 36A  max. |
| +12V | 15.6Vmax | 100A  max. |
| **Over Power Protection** | Protection at 110%~150% over peak load. | |
| **Over Temperature Protection** | Protection temperature is 65℃±5℃ at 115V and full load. | |
| **Short Circuit Protection** | Activated when any DC rails short circuited. | |