



thermaltake

TOUGHPower SERIES
POWER SUPPLY

TOUGHPower GF A3



TOUGHPower GF A3

850W

DATASHEET



Specification

| | | | | | |
|--------------------|--------------------------|-----|-------|------|-------|
| AC Input | Input Voltage: 100-240V~ | | | | |
| | Input Current: 15A-8A | | | | |
| | Frequency: 50Hz/60Hz | | | | |
| DC Output | +3.3V | +5V | +12V | -12V | +5VSB |
| Max Output Current | 20A | 20A | 70.8A | 0.3A | 3A |
| Max Output Power | 100W | | 850W | 3.6W | 15W |
| Total Power | 850W | | | | |

GENERAL INFO

| | |
|----------------------|---------------------------|
| P/N | PS-TPD-0850FNFAGU-L |
| Max. Output Capacity | 850W |
| Color | Black |
| Dimension | 150mm(W)x86mm(H)x140mm(D) |
| PFC | Active PFC |
| Power Good Signal | 100-150 msec |
| Hold-Up Time | > 17msec |
| Cooling System | 12cm FDB Fan |
| Weigh (Main Body) | 1.55 KG |

ENVIRONMENT

| | |
|-----------------------|----------------------------|
| Operating Temperature | 5°C to + 45°C |
| Operating Humidity | 20% to 85%,non-condensing |
| Storage Temperature | -40°C to + 55°C |
| Storage Humidity | 10% to 95%, non-condensing |

MISCELLANEOUS

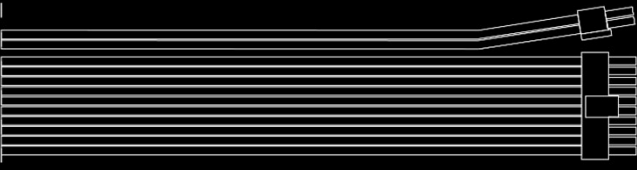
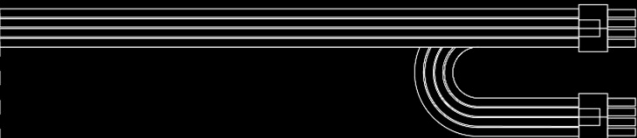
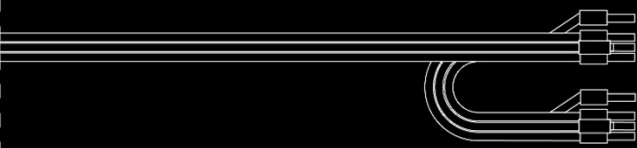
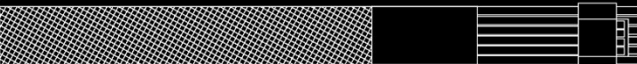
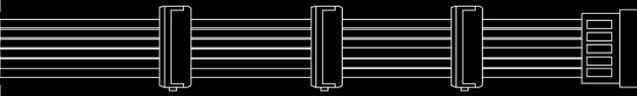
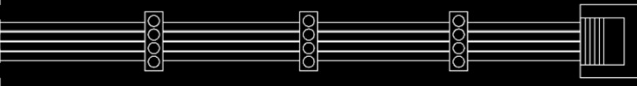

| | |
|-----------------|-------------------------------------|
| Efficiency | Meet 80 PLUS® Gold at 115Vac input. |
| MTBF | 100,000 hrs minimum |
| Safety Approval | FCC/ICES/CB/cTUVus |

PCIe CONNECTOR

| | |
|---------------------|---|
| PCIe 6+2pin | 4 |
| PCIe 12+4pin (450W) | 1 |



Connector and Cable Specification

| Connector Type | Connector Quantity | | Cable Quantity | Cable Length |
|---------------------|--------------------|--|----------------|-----------------------------|
| Main Power (24Pin) | X 1 |  | X 1 | 600mm |
| ATX 12V (4+4Pin) | X 2 |  | X 1 | 650mm+150mm |
| PCIe (6+2Pin) | X 4 |  | X 2 | 500mm+150mm |
| PCIe (12+4Pin) 450W | X 1 |  | X 1 | 600mm |
| SATA (5Pin) | X 8 |  | X 2 | 500mm+150mm +150mm+150mm |
| Peripheral (4Pin) | X 4 |  | X 1 | 500mm+150mm +150mm+150mm |
| FDD Adapter | X 1 |  | X 1 | 150mm |



Total Protection

| Protections | Voltage Source | | |
|-----------------------------|---|-----------|------------|
| | +3.3V | +5V | +12V |
| Over Voltage Protection | 3.76~4.3V | 5.74~7.0V | 13.4~15.6V |
| Under Voltage Protection | 2.0~2.6V | 3.3~3.9V | 8.5~9.7V |
| Over Current Protection | 24~32A | 24~32A | 113~142A |
| Over Power Protection | Protection at 160%~200% over peak load. | | |
| Over Temperature Protection | Protection temperature is 55°C~65°C | | |
| Short Circuit Protection | Short circuit placed on +5V,+12V,+3.3V,-12V will latch off. +5VSB will auto-recovery. | | |