



thermaltake

TOUGHPower SERIES
POWER SUPPLY

TOUGHPower PF1 650W



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DATASHEET



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Ultra Quiet

Hydraulic Bearing Fan

Smart Zero Fan

Low Ripple Noise

Fully Modular

Flat Cables

100% Japanese
Capacitors

10 YEAR
Warranty



Features

- Continuous output at 50°C/122°F operating environment.
- 80 PLUS Platinum Certified.
- 100% high quality Japanese capacitors.
- < 30mV low ripple noise design.
- Extremely strict voltage regulation < $\pm 2\%$
- Hold up time > 16 milliseconds.
- New Board Technology Offering Single side SMD.
- Fully modular low-profile flat black cables.
- Ultra Quiet 120mm Hydraulic Bearing Fan delivers excellent airflow.
- Smart Zero Fan: Minimizes undesired noise.
- 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)x140mm(D).
- Safety approvals: CE/UL/TÜV/FCC/BSMI/CCC/ EAC certifications.



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POWER SUPPLY**TOUGHPOWER PF1 650W**

GENERAL INFO	
P/N	PS-TPD-0650FNFAPx-1
Model	TTP-650AH2FKP
Max. Output Capacity	650W
Peak Output Capacity	780W
Color	Black
Dimension (W/H/D)	150mm(W) x 86mm(H) x 140mm(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	5°C to + 50°C
Operating Humidity	20% to 85%,non-condensing
Storage Temperature	-40°C to + 55°C
Storage Humidity	10% to 95%, non-condensing
Cooling System	12cm hydraulic bearing fan
MISCELLANEOUS	
Efficiency	Meet 80PLUS®Platinum at 115Vac input.
MTBF	120,000 hrs minimum
Safety Approval	CE/UL/TÜV/FCC/BSMI/CCC/ EAC
PCI-E CONNECTOR	
PCI-E 6+2pin	4