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TOUGHPower SERIES
POWER SUPPLY

Smart BM3 Series



SMART BM3 550W

DATASHEET



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Smart BM3 Series



PCIe Gen 5 Ready
16-PIN Connector



ATX 3.0 Compatible

Smart Zero Fan

Japanese
Main Capacitor

5 YEAR
Warranty

Features

- Fully compatible with Intel ATX 3.0 specification.
- PCIe Gen 5 ready, designed with native PCIe 12+4pin modular interface.
- 80 PLUS® Bronze certified up to 85% efficiency.
- Modular low-profile flat black cables.
- High quality Japanese 105°C/221°F main capacitor.
- Smart Zero Fan: Minimizes undesired noise.
- 550W continuous output at 40°C/104°F operating environment.
- High amperage single +12V rail design.
- DC-DC design for more precise electrical output.
- Intel C6/C7 states & ErP ready
- Built-in industry grade protections: OCP, OVP, UVP, OPP, SCP, OTP.
- Compact Sizing: 150mm(W)x86mm(H)x140mm(D).
- 5 years warranty.



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Highlighted Features

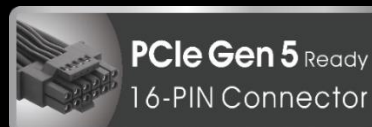
Fully Compatible With ATX 3.0 Specifications

Meets all the needs of a computer system, providing powerful and stable power.

- Supports 200% power excursion
- Reaches 60% low load efficiency
- Complies with required power supply timing standards
- Designed with native 12+4pin 12VHPWR connector.

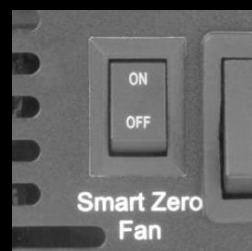


ATX 3.0 Compatible



Ultra Quiet Smart Zero Fan

The Smart Zero Fan will not spin until the load exceeds 20% of the power supply, minimizing undesired noise.



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

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

High Quality Japanese 105°C/221°F Main Capacitors

Improves the durability and offers the highest stability and reliability.

Low-Profile Flat Black Cables

Makes cable management easier.



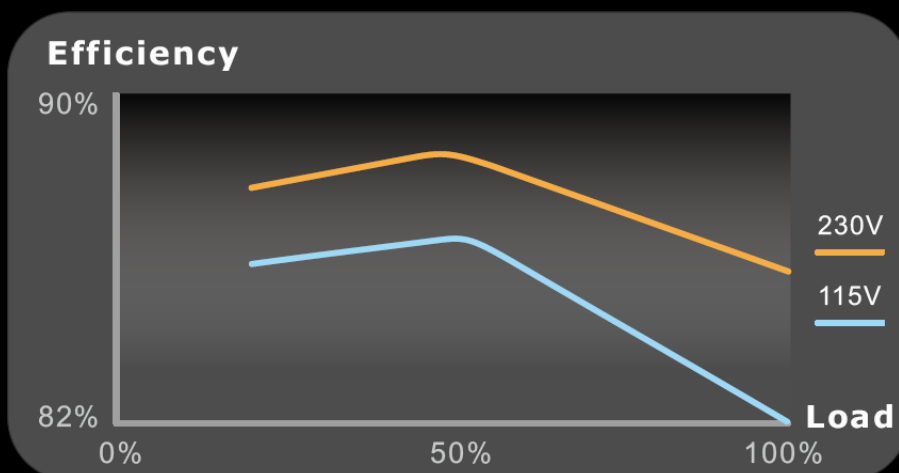


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Eco Design



80 PLUS® Bronze Certified Efficiency

Delivers top end efficiency under real world load conditions.



Supports Energy Star 5.0* energy standard

Smart BM3 series is suitable for use in Energy Star-compatible computers.

Supports Intel Deep Power Down C6/C7 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 Smart BM3 series meets WEEE & RoHS requirements.



Specification

AC Input	Input Voltage: 100-240V~				
	Input Current: 12A-5A				
	Frequency: 50Hz/60Hz				
DC Output	+3.3V	+5V	+12V	-12V	+5VSB
Max Output Current	16A	16A	45.85A	0.3A	3A
Max Output Power	105W		550W	3.6W	15W
Total Power	550W				

GENERAL INFO

P/N	PS-SPD-0550MNFABx-3
Model	SPD-550AH2CLB
Max. Output Capacity	550W
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
Smart Zero Fan	Fan will not spin until the load exceeds 20%
Weigh (Main Body)	1.58 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

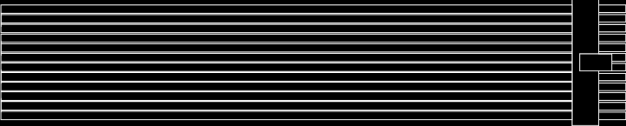
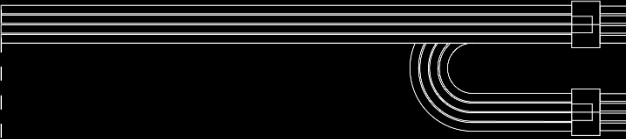
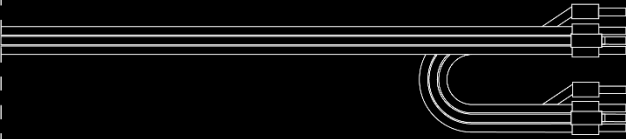

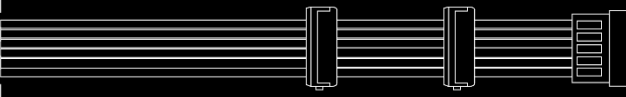
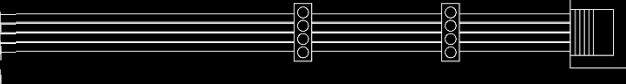
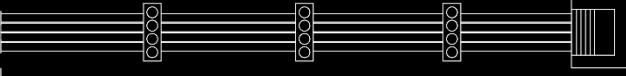
Efficiency	Meet 80 PLUS® Bronze at 115Vac input.
MTBF	100,000 hrs minimum
Safety Approval	CE/UKCA/LVD/UKCA/FCC/ICES/TUV/CB/cTUVus/BSMI/CCC
Protection	OCP/OVP/UVp/OPP/OTP/SCP

PCIe CONNECTOR

PCIe 6+2pin	2
PCIe 12+4pin (300W)	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 2		X 1	500mm+150mm
PCIe (12+4Pin) 300W	X 1		X 1	600mm
SATA (5Pin)	X 3		X 1	500mm+150mm +150mm
Peripheral (4Pin)	X 7		X 1	500mm+150mm +150mm
			X 1	500mm+150mm +150mm+150mm



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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	25~40A	25~40A	77.5~91.7A
Over Power Protection	Protection at 160%~200% over peak load.		
Over Temperature Protection	Protection temperature is 45°C~55°C		
Short Circuit Protection	Short circuit placed on +5V,+12V,+3.3V,-12V will latch off. +5VSB will auto-recovery.		