

P/N: SPR-0500NHSAW W/A PFC

Thermaltake SMART RGB 500W



❖ Features

- ATX 12V V2.3 enables most reliable and robust power delivery.
- Guaranteed to deliver 500W continuous output @ 40°C operating environment.
- High-Quality components and single +12V rails design enable non-stop usage with stable and reliable performance.
- 80 PLUS® 230V EU Internal certified: with 82-86% efficiency @ 20-100% load under real world load conditions.
- Active Power Factor Correction provides clean and reliable power to your system.
- Ultra-quiet 120mm cooling fan delivers excellent airflow at an exceptionally low noise level.
- SMART RGB series is prepared for the new Intel processors Kaby Lake to achieve maximum energy savings.
- Ready for next-generation multi-core Intel® & AMD CPU.
- Supports Nvidia® & ATI/AMD graphic cards.
- Heavy-duty protection circuitry of Over Voltage, Over Power and Short-Circuit protections.
- Dimension: 150mm(W)x86mm(H)x140mm(D).
- High reliability: MTBF>100,000 hours.
- Safety / EMI Approvals: CE/CB/TUV/ EAC.

Thermaltake SMART RGB 500W

❖ Technology Features

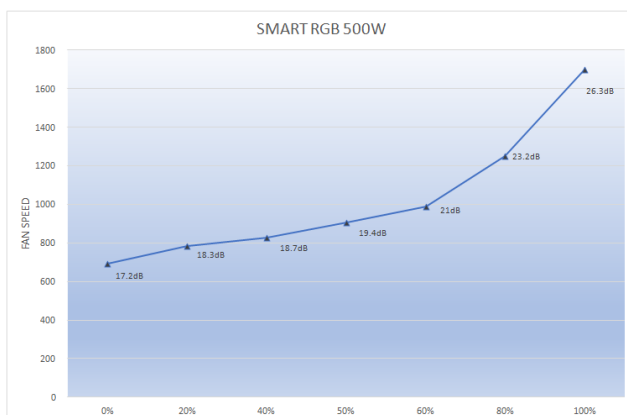


High-Quality components and single +12V rails design and built in industrial-grade protections.



Ultra Quiet 120mm Fan
SMART RGB series adopt 120mm cooling fan with intelligent RPM control guarantees cool performance and silent operation.

• Fan Speed & Noise Level



• Packaging



Thermaltake SMART **RGB** 500W

❖ *ECO Design*

- 80 Plus 230V EU Internal Certified



SMART RGB series saves energy through its high energy efficiency of up to 86% and is 80 PLUS® 230V EU Internal certified.

•ErP Ready:

SMART RGB Series fulfils the EU guideline for ErP (Energy-Related Products) implemented in 2013.

•Supports Energy Star 5.0* energy standard:

SMART RGB Series is suitable for use in Energy Star-compatible computers.

•Supports Intel Deep Power Down C6 Status:

SMART RGB Series 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 RGB series meets WEEE & RoHS requirements.

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❖ Output Specification

P/N	AC INPUT	Input Voltage: 230V Input Current: 5A max Frequency: 50Hz-60Hz				
SPR-0500NHSAW	DC OUTPUT	+3.3V	+5V	+12V	-12V	+5Vsb
	Max Output Current	20A	15A	35A	0.5A	2.5A
	Max Output Power	100W		420W	6.0W	12.5W
	Continuous Power	500W				

❖ Connectors Specification

P/N	MODEL	CABLE						
SPR-0500NHSAW	SMART RGB 500W		Main Power Connector (20+4Pin)	ATX 12V (4+4Pin)	Peripheral (4Pin)	SATA (4Pin)	PCI-E (6+2Pin)	Floppy (4Pin)
			1	1	4	5	2	1

Model	Connector Type	Connectors & Cable length
500W	20+4pin	1 x 20+4pin Main connector (500mm)
	ATX 12V 4+4pin	1 x ATX 12V 4+4pin connector (550mm)
	PCI-E 6+2pin	2 x PCI-E 6+2pin connectors (500mm + 100mm)
	Molex & FDD	4 x Peripheral & 1 x FDD connectors (500mm + 100mm + 100mm + 100mm + 100mm)
	SATA	3 x S-ATA connectors (500mm + 100mm + 100mm) 2 x S-ATA connectors (500mm + 100mm)

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GENERAL INFO	
P/N	PS-SPR-0500NHS AWx-1
Short P/N	SPR-0500NHS AW
Model	SPR-500AH2NK-2
Type	Intel ATX 12V 2.3
Max. Output Capacity	500W
Color	Black
Dimension (H/W/D)	86mm x 150mm x 140mm
PFC	Active PFC
Power Good Signal	100-500 msec
Hold-up Time	16msec (minimum) within 60% load
AC INPUT	
Input Current	5A max
Input Frequency Range	50 Hz - 60 Hz
Input Voltage	230 Vac
ENVIRONMENTAL	
Operating Temperature	5°C to +40°C
Operating Humidity	20% to 85%,non-condensing
Storage Temperature	-40 °C to +55 °C
Storage Humidity	10% to 95%, non-condensing
Cooling System	120mm Fan: 1800 R.P.M. ± 10%
MISCELLANEOUS	
Efficiency	82-86% efficiency @ 20-100% load
MTBF	100,000 hrs minimum
Safety Approval	CE/CB/TUV/ EAC
PCI-E CONNECTOR	
500W	PCI-E 6+2pin x 2

Thermaltake SMART **RGB** 500W

❖ *Total Protection*

Voltage Source	Over Voltage Protection
	Protection Point
+3.3V	3.7V~4.3V
+5V	5.7V~6.8V
+12V	13.8V~15.6V
Over Power Protection: Protection at 110%~160% full load.	
Short Circuit Protection: Activated when any DC rails short circuited.	