Thermaltake SMART RGB 600W

5 YEAR WARRANTY Thermaltake

Ready! ErP

80 PLUS®

Kaby Lake C6/C7 States Ready

❖*Features*

➢ATX 12V V2.3 enables most reliable and robust power delivery.

➢Guaranteed to deliver 600W continuous output @ 40℃ operating environment.

➢High-Quality components and single +12V rails design enable non-stop usage with stable and reliable performance.

➢80 PLUS® certified: with 82-86% efficiency @ 20-100% load under real world load conditions.

➢Active PFC with Universal AC input.

➢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/ UL/ FCC/ EAC.

Thermaltake SMART RGB 600W

❖ *Technology Features*

High-Quality components and single +12V rails design and built in industrial-grade protections.
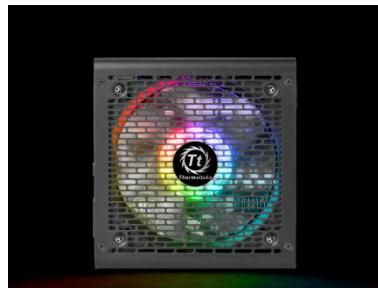
Ultra Quiet 120mm Fan
SMART RGB series adopt 120mm cooling fan with intelligent RPM control guarantees cool performance and silent operation.

•Fan Speed & Noise Level
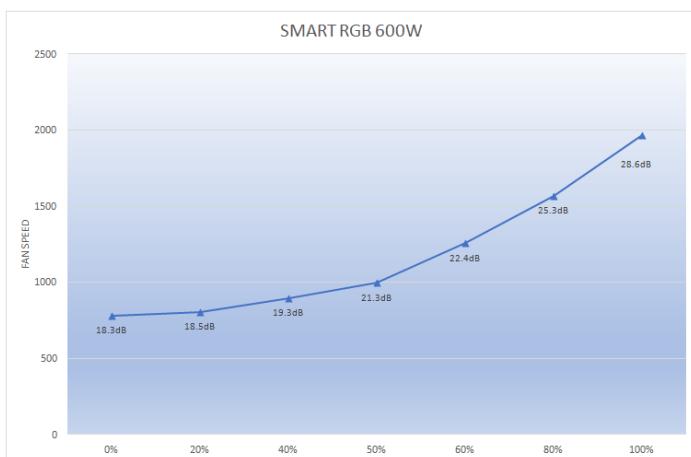
• Packaging

Thermaltake SMART RGB 600W

❖ *ECO Design*

•80 Plus Certified

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

Thermaltake SMART *RGB* 600W

❖ Output Specification

P/N	AC INPUT	Input Voltage: 100V - 240V Input Current: 10A max Frequency: 50Hz-60Hz				
SPR-0600NHFAW	DC OUTPUT	**+3.3V**	**+5V**	**+12V**	**-12V**	**+5Vsb**
	Max Output Current	22A	17A	42A	0.5A	2.5A
	Max Output Power	105W		504W	6.0W	12.5W
	Continuous Power	600W				

❖ Connectors Specification

P/N	MODEL	CABLE Main Power Connector (20+4Pin)	ATX 12V (4+4Pin)	Peripheral (4Pin)	SATA (4Pin)	PCI-E (6+2Pin)	Floppy (4Pin)
SPR-0600NHFAW	SMART RGB 600W	1	1	3	6	2	1

Model	Connector Type	Connectors & Cable length
600W	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	3 x Peripheral & 1 x FDD connectors (500mm + 100mm + 100mm +100mm)
	SATA	3 x S-ATA connectors (500mm + 100mm +100mm) 3 x S-ATA connectors (500mm +100mm + 100mm)

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GENERAL INFO	
P/N	PS-SPR-0600NHFAWx-1
Short P/N	SPR-0600NHFAW
Model	SPR-600AH2NK-1
Type	Intel ATX 12V 2.3
Max. Output Capacity	600W
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	10A max
Input Frequency Range	50 Hz - 60 Hz
Input Voltage	100Vac - 240Vac
ENVIRONMENTAL	
Operating Temperature	5℃ to +40℃
Operating Humidity	20% to 85%,non-condensing
Storage Temperature	-40 ℃ to +55 ℃
Storage Humidity	10% to 95%, non-condensing
Cooling System	120mm Fan: 2000 R.P.M. ± 10%
MISCELLANEOUS	
Efficiency	82-86% efficiency @ 20-100% load
MTBF	100,000 hrs minimum
Safety Approval	CE/CB/TUV/ UL/ FCC/ EAC
PCI-E CONNECTOR	
600W	PCI-E 6+2pin x 2

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❖ 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.		