SMART DPS G 600W

❖Features

• Compliance with **Intel ATX 12V 2.31** & **SSI EPS 12V 2.92** standards.

• 80 PLUS® Bronze certified up to 87% efficiency.

• Digital power supply enables users to do real-time performance monitor and control.

• Share records with friends through Facebook or email.

• Ultra-quiet 12cm fan with digital fan control.

• High quality Japanese main capacitor.

• Semi-modular design with low profile & flat cables.

• High amperage single +12V rail design.

• Haswell and ErP Ready

• Built-in industry grade protections: Over Power, Over Voltage and Short-Circuit protection.

• Dimension: 150mm(W)x86mm(H)x140mm(D).

• High reliability: MTBF>120,000 hours.

• Safety / EMI Approvals: CE/FCC/UL/TUV/CB/EAC/BSMI certification.

SMART DPS G 600W

❖ Technology Features

Concept of IoT - Digital DPS G App Software

Our solution offers cloud data management for users. With the integrated and easy-to-use DPS G App, you can access PSU/VGA/CPU data on PC & mobile devices, or even monitor multi-PSU on your mobile phone anytime anywhere.

DPS G PC App - monitor/control the PSU on desktop
DPS G Mobile App(iOS and Android compatible) - monitor multi-PSU anywhere.
DPS G Smart Power Management Cloud 1.0 - sync your stats via our Smart Power Management Cloud

Real-Time VGA/CPU Monitoring

Digital DPS G app enables real-time monitoring of key parameters of the CPU and VGA, including voltage, current, wattage, and temperature. There is no need to close applications, web browser, and other software while monitoring your system.

Sharing in the Cloud

With no connecting boundaries, the Digital DPS G app also offers users an easy way to share the power usage results with colleagues through social network applications such as Facebook, Twitter, and Weibo, or by sending reports via e-mail.

SMART DPS G 600W

❖ *Technology Features*

Modular cable management

The semi-modular cabling design allows you to use only those cables you need, resulting in optimal airflow and a significant reduction in system clutter. There's no need to have extra cabling that you don't need filling up important space.

Low-profile flat black cables

SMART DPS G series adopt flat modular cables to enhance airflow and improve the thermal performance of the chassis. Flat cables are inherently more flexible, making cable routing easier.

32Bit Microcontroller (MCU)

Smart DPS G comes with a 32Bit MCU from Microchip Technology. The 32Bit MCU processes all the data inside the power supply and provides accurate information.

High quality Japanese brand capacitors

SMART DPS G 600W BRONZE features high quality Japanese brand capacitors, which greatly improves the durability and offers the highest stability and reliability.
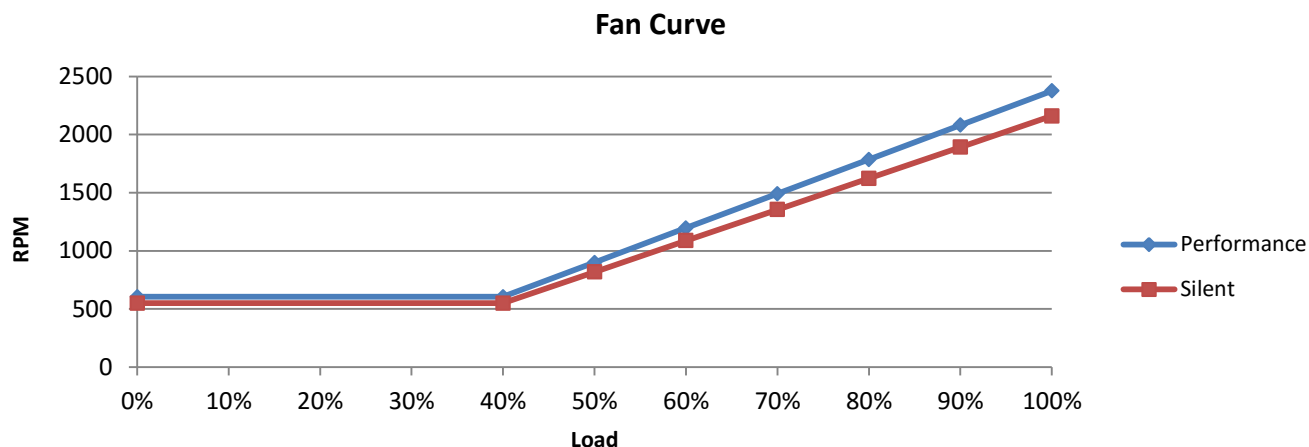

Massive and Dedicated +12V Output

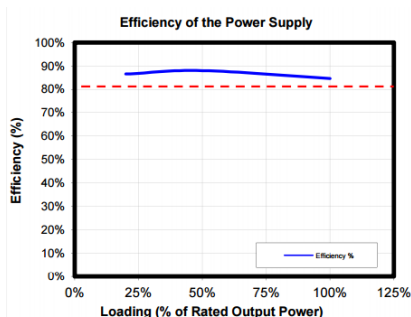SMART DPS G series is equipped with a powerful single +12V rail

SMART DPS G 600W

• *Fan Speed & Noise Level*

Fan Curve

• ❖ *ECO Design*

• *80 PLUS® Bronze Certified*

SMART DPS G 600W BRONZE saves energy through its high energy efficiency
of up to 87% and is 80 PLUS® Bronze certified.

• *ErP Ready:*

SMART DPS G Series fulfills the EU guideline for ErP (Energy-Related Products) implemented in 2013.

• *Supports Energy Star 5.0* energy standard:*

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

• *Supports Intel Deep Power Down C6 Status:*

SMART DPS G 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 DPS G series meets WEEE & RoHS requirements.

SMART DPS G 600W

❖ Output Specification

AC INPUT	Input Voltage: 100V - 240V Input Current: 9A Frequency: 47Hz - 63Hz				
DC OUTPUT	+3.3V	+5V	+12V	-12V	+5VSB
Max Output Current	20A	17A	46A	0.3A	2.5A
Max Output Power	120W		552W	3.6W	12.5W
Total Power	600W				

❖ Total Output Connector

CABLE P/N	Main Power Connector (24Pin)	ATX 12V (4+4Pin)	Peripheral (4Pin)	SATA (5Pin)	PCI-E (6+2Pin)	FDD (4Pin)
SPG-0600D-B	1	1	3	6	4	1

Model	Connector Type	Connectors & Cable length
600W	Main Power (24pin)	1 x 24pin Main connector (600mm)
	ATX 12V (4+4pin)	1 x 4+4pin ATX 12V connector (600mm)
	PCI-E (6+2pin)	2 x 6+2pin PCI-E connectors (500mm + 150mm) 2 x 6+2pin PCI-E connectors (500mm + 150mm)
	Molex & FDD	3 x Peripheral & 1 x FDD connectors (500mm + 150mm + 150mm + 150mm)
	SATA	3 x SATA connectors (500mm + 150mm + 150mm) 3 x SATA connectors (500mm + 150mm + 150mm)

SMART DPS G 600W

GENERAL INFO

P/N	PS-SPG-0600DPCBXX-B
Short P/N	SPG-0600D-B
Model	SPG-600DH2CCB
Type	Intel ATX 12V 2.31 & SSI EPS 12V 2.92
Max. Output Capacity	600W
Peak Output Capacity	720W
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	> 10msec at 80% of full load (230Vac input)

AC INPUT

Input Current	9A
Input Frequency Range	47Hz - 63Hz
Input Voltage	100V - 240V

ENVIRONMENTAL

Operating Temperature	0 ℃ to +40℃
Operating Humidity	20% to 90%,non-condensing
Storage Temperature	-20 ℃ to +70 ℃
Storage Humidity	5% to 95%, non-condensing
Cooling System	12cm dual ball bearing Fan

MISCELLANEOUS

Efficiency	MEET 80 Plus Bronze at 115Vac input.
MTBF	120,000 hrs minimum
Safety Approval	CE/FCC/UL/TUV/CB/EAC/BSMI

PCI-E CONNECTOR

PCI-E 6+2pin	4

❖*Total Protection*

Voltage Source	Over Voltage Protection	
	Protection Point	
+3.3V	4.5Vmax	
+5V	7.0Vmax	
+12V	15.6Vmax	
Over Power Protection: Protection at 110%~150% over peak load.		
Short Circuit Protection: All output to GND.		