FSP Aurum Series Gold 700

The FSP Aurum Series Gold 700 is an affordable, compact power supply that meets the 80 Plus Gold standard. The key to the power supply's design is FSP's MIA (Multiple Intelligence Ability) technology, which is an integrated circuit that combines pulse width modulation; zero current switching and power factor correction (increases AC-DC conversion efficiency and minimizes energy loss to heat); post synchronous rectifying; active clamp (improves switching losses); and overvoltage protection. The integration of components means that less energy is wasted overall.

The Aurum Series Gold 700 offers four 12V rails, each with a max of 18A, to provide a max combined power of 672W. The 3.3V and 5V DC outputs each offer 28A for a max combined power of 160W. As you may guess from its name, total power available is 700W. The unit's 7-inch (including cable bend) length makes it ideal for those with midsized or smaller cases that need a power supply that can still support high-end graphics cards. There are two PCI-E power cables, and both feature two 6+2-pin connectors to support two-way SLI or CrossFire. For connecting peripheral devices, there are three cables. One has four SATA connectors; another includes two SATA and two Molex; and the other offers one SATA, two Molex, and one floppy.

In our testing, we were able to push the power supply to a power draw of 455 watts, and it delivered a power factor of 97.8 when we simultaneously ran POV-Ray beta and the Aliens vs. Predator benchmarks. We experienced no problems during our testing and liked that FSP included 37-inch-long SATA/Molex cables, so we could easily reach all the components in our test system. ■

BY Nathan Lake

Aurum Series Gold 700
$129.99
FSP
www.fspgroupusa.com

Specs	
Rated continuous (W)	700 (at 40 C)
12V rails	4
+12V max (A)	18
+5V max (A)	28
+3.3V max (A)	28
SLI/CrossFire-ready	Yes
Max wattage tested	455
Power factor tested	97.8
Efficiency rating	
(as advertised)	90%
Cable side	Motherboard
Fan location	Bottom
Fan(s)	120mm
PCI-E	4 (6+2-pin)
Main 12V	20+4-pin
8-pin EPS 12V	2 (1 4+4-pin, 1 8-pin)
4-pin 12V	0
SATA	7
4-pin Molex	4
Floppy	1
Length	
(including cable bend)	7 inches
Warranty	5 years

Test system specs: Processor: Intel Core i7-980X; Motherboard: Gigabyte X58A-OC; GPU: Nvidia GeForce GTX 580 (2x, SLI); RAM: 6GB Crucial Ballistix DDR3-1600; Storage: 128GB Crucial RealSSD C300