Dagger - Gold 500W

The Dagger Series is FSP's brand new 80 PLUS® gold SFX PSU. It features of a fully modular design, flat ribbon cables and DC to DC module design in a compact size that is suitable for small pc host machines, such as VR systems, Micro ATX systems and home media. The Dagger Series comes in two models — 500W and 600W, their power density are 2 times higher than the normal ATX PSU, to achieve a higher power performance.

- Compatible with Micro ATX PC
- Lastest standard SFX12V V3.3 & ATX12V V2.4
- 80 PLUS® Gold certified
- Efficiency ≧ 90% at typical load
- 100% Japanese made electrolytic capacitors
- High quality 80mm dual ball bearing fan
- Advanced full modular design with ribbon cables
- Zero noise when the system is under 50% load then the intelligent fan starts spinning when it's over 50% load
- Powerful single +12V rail design- max output 41.67A for 500W & max output 50A for 600W
- Intel Skylake ready
- Full protections OCP, OVP, SCP, OPP, OCP, OTP

Dagger - Gold 500W

Specifications   Review   Download

SFX Compact Size

Other Models

500W   600W

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FSP

Top

The Dagger series is compatible with most Mini-ITX, Micro ATX, and small form factor PCs. It is ideal for the living room PCs, and an alternative option for gamers.

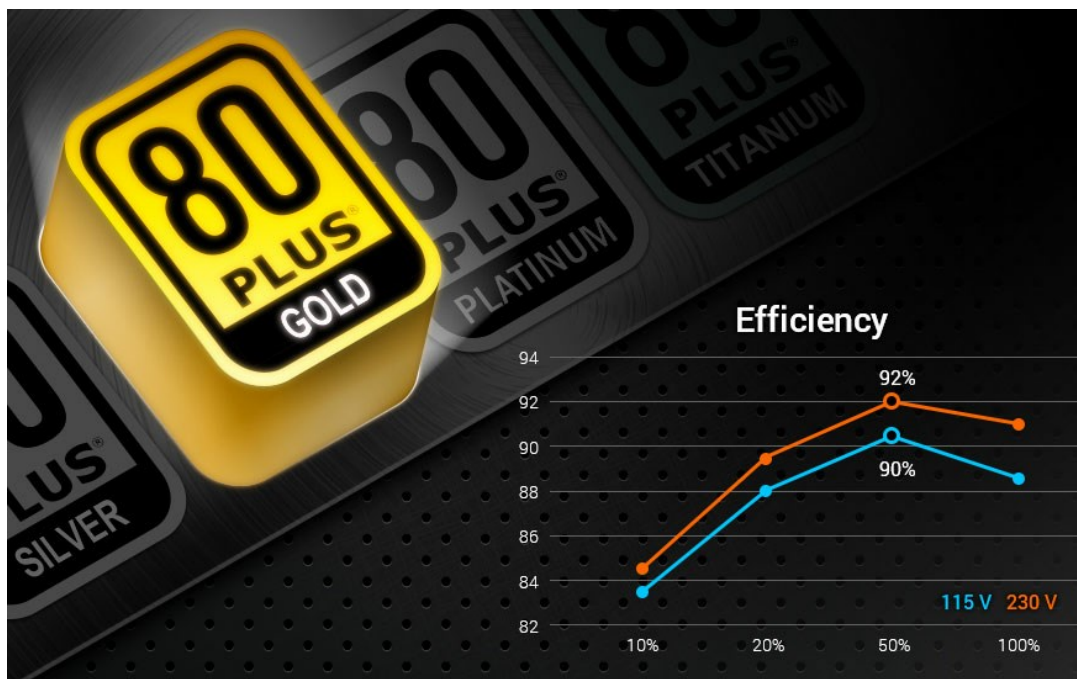| Dc to DC Module Design | Full Modular | 100% Japan-made E-cap | Ribbon Cable |

High Efficiency 80 Plus® Gold Certification

Efficiency

92%

90%

115 V 230 V

10% 20% 50% 100%

The Dagger Series is 80 PLUS Gold certified power supply units that guarantee to operate at a minimum of 90% efficiency at 50% load of PSU rated power which has lower running costs with less electrical waste.

VR Ready

VR Ready

By taking high efficient LLC topology, high level server grade PCB and DC to DC module design, the Dagger series provides gamers with an ultimate entertainment experience.

Fully Modular Ribbon Cables

Fully modular and flat ribbon cables mean easy installation. Its parallel wires are a perfect solution for applications with limited space. This also enhances the overall airflow, makes the system cooler as less heat is trapped inside, and prolongs the product life span.

2X Power Density

Features of high power density, 2 times higher than the ATX PSU in the same wattage.

2.5"
6.35 cm

4.92"
12.5 cm

4.33"
11 cm

Full Japanese Capacitors

105 °C Japanese-made Capacitor and Solid Capacitor promote a longer product life span.

DC to DC Module Design

+12V SR circuit, combining both +3.3V and +5V DC-DC modules, offers supreme efficiency, voltage stability and high system compatibility especially in cross regulation (unbalanced load) mode.

Server Grade PCB Design

Unlike the traditional welding method, Dagger series uses copper brass to connect the mainboard and the daughter board together to enhance the conversion efficiency.

Compatible to PS2 case

Like all FSP SFX PSU, the Dagger series is also equipped with a bracket for easy fitting in the standard PS2 ATX case.

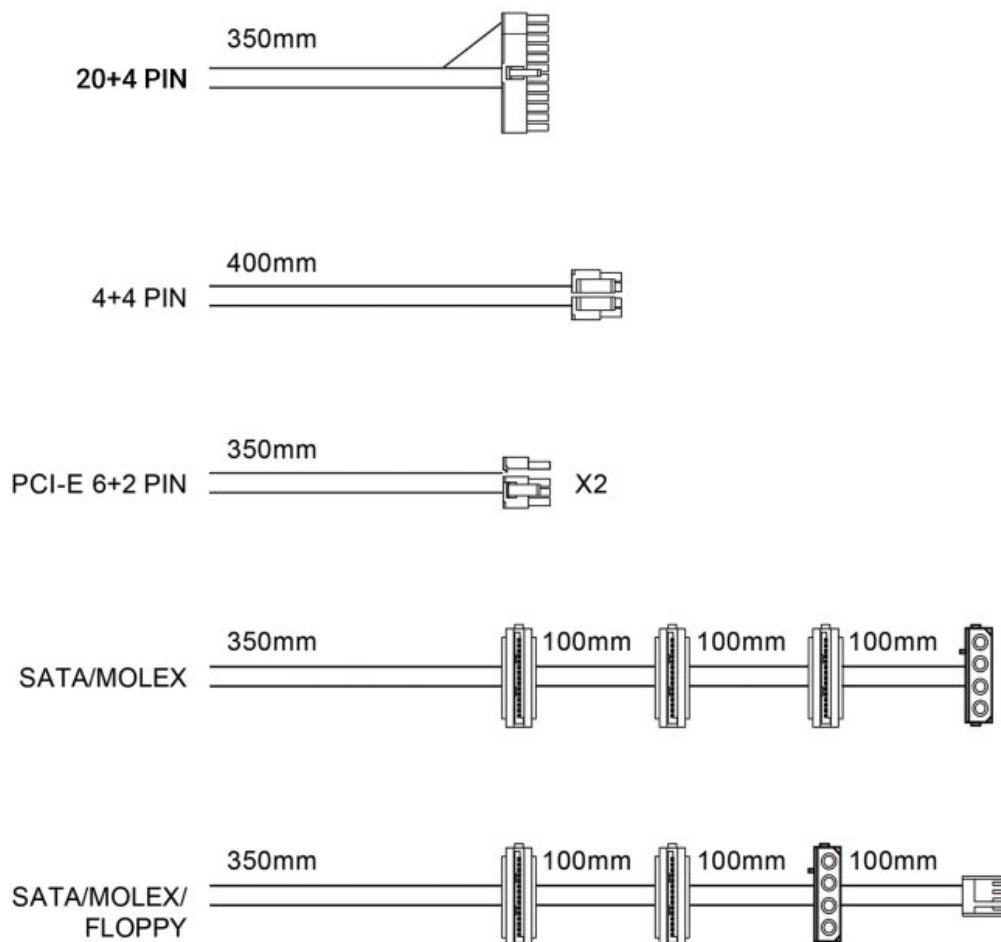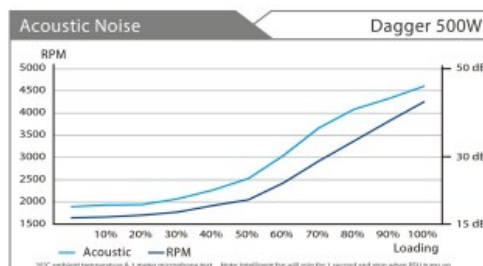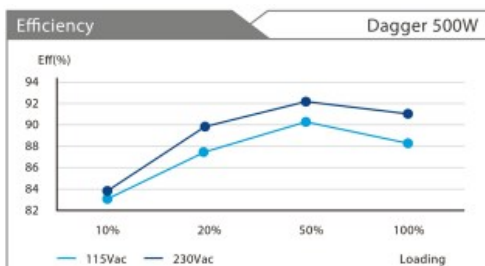FSP Dagger Series SFX Power Supply

Cable Length

350mm
20+4 PIN

400mm
4+4 PIN

350mm
PCI-E 6+2 PIN   X2

350mm   100mm   100mm   100mm
SATA/MOLEX

350mm   100mm   100mm   100mm
SATA/MOLEX/
FLOPPY

Performance

Efficiency   Dagger 500W

Eff(%)

94
92
90
88
86
84
82

        10%   20%   50%   100%

— 115Vac   — 230Vac   Loading

Acoustic Noise   Dagger 500W

RPM   50 dB

5000
4500
4000
3500
3000   30 dB
2500
2000
1500   15 dB

        10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

    — Acoustic — RPM   Loading

Note: Intelligent fan will spin for 1 sec and stop when the PSU turns on, it will start spinning again when the system is over 50% load.

AC/DC

AC Input	100-240Vac~ 8-4A 50-60Hz				
DC Output	+3.3V	+5V	+12V	-12V	+5Vsb
Max Output Current	20A	15A	41.67A	0.3A	2.5A
Max Combined Power	90W		501W	3.6W	12.5W
Total Power	500W				

Cables

	ATX 24	4+4 PIN	PCI-E 6+2	SATA	Molex (PERIPHERAL
Connectors	1	1	2	5	2

Specifications

Model	SDA500
Rated Output Power	500W
Form Factor	SFX
80 PLUS Certification	Gold
Input Voltage	100-240Vac
Input Current	8-4A
Input Frequency	60-50 Hz
PFC	Active PFC
Efficiency	90%
Fan Type	Dual ball bearing fan, 80mm
Dimensions(L x W x H)	125 x 63.5 x 110 mm (4.92" x 2.5" x 4.33")
Weight	1.182kg (2.61lbs)
Protection	OCP/OVP/SCP/OPP/OCP/OTP

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Dagger-A4 flyer-DM.jpg

Review

FSP announced its new Dagger line of PSUs during Computex 2016. Now, just a few months before the next Computex, the fully modular and highly efficient Dagger SDA500 and Dagger SDA600 are finally available. That's good news for anyone who needs quality PSUs that don't require a lot of space.

These are fully modular, highly efficient (80+ Gold), small form-factor PSUs, which look to deliver outstanding power quality to your small form factor experiments.

These power supplies are 80Plus Gold rated, so they offer 90 percent efficiency under typical system load. The Dagger series is power efficient but it is also space efficient too as the modular cable design will allow you to use custom cables or only plug in the cables you need to keep your compact build tidy. FSP's bundled cables also use a flat ribbon design to help save space, which will also help with system airflow.

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