80 PLUS GOLD

7 YEAR WARRANTY

IEC62368 READY

Introduction

The FSP DAGGER PRO features with standard SFX size and included ATX adapter bracket to help users easily install an SFX power supply into an ATX, Micro-ATX or Mini-ITX chassis. With this compact size but comes with powerful output, especially the +12V single-rail offers VGA cards full power individually and to avoid any over-loading conditions. Besides, the fully modular and all black cable design save your system an optimal airflow space and easy to make a cable management for a polished look.

DAGGER PRO series lineup 2 new wattage now, there are 4 different power output options to choose from 550W, 650W, 750W and 850W.
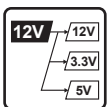
Features

Semi-fanless Design
To spin over 20% loading that makes optimal cooling and reduces noise.
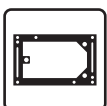
+12V Single Rail Design
Designed for power-intensive VGA cards, provides strong power to any overloading condition.

DC – DC Module
Providing high efficient , stable power.

SFX to ATX Adapter Bracket
Helps users easily install an SFX power supply into an ATX, Micro-ATX or Mini-ITX chassis.

· Compliance with newest SFX12V V3.3
· Efficiency $\geqq$ 90% at typical load
· MIA IC™ (Multiple Intelligence Ability) chip set inside
· Semi-fanless design for silent operation
· Quiet and long-lasting 92mm ball bearing fan
· Ribbon cables for the need of enthusiasts
· Powerful single +12V rail design
· Japanese electrolytic capacitors
· Intel Latest CPU ready
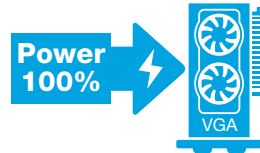· Full protections OCP, OVP, SCP, OPP, OTP
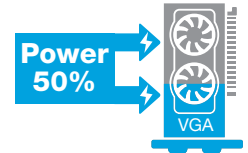
Product Overview
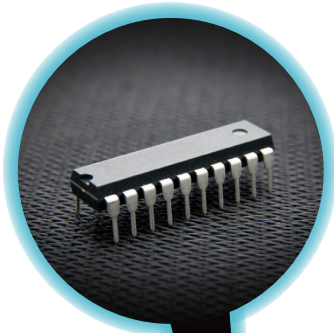
MIA IC™ Chip Set with DC-DC Module

An integrated power solution of FSP's own patented IC design with DC-DC module ensures solid power delivery to your system.
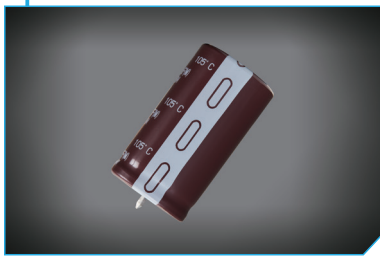
Single +12V rail

Multi.+12V rail

Power 100%

Power 50%

VGA

VGA

Powerful +12V Single Rail

VGA card is a component which needs greedy and stable power supporting most. The compact size DAGGER PRO series comes with a single +12V rail design that offers VGA cards full power individually and to avoid any overloading conditions.

Japanese Capacitors

Japanese electrolytic capacitors endure over 100 °C degree temperature, it ensures safety on spare parts for prolong lifespan and reliability.
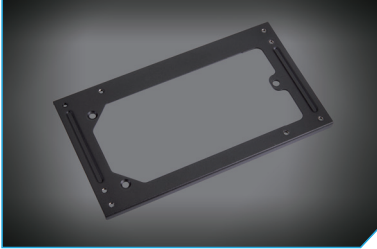
Semi-fanless Design with 92mm Fan

An advanced semi-fanless design will spin over 20% loading that makes optimal cooling and reduces noise under maximum operation.
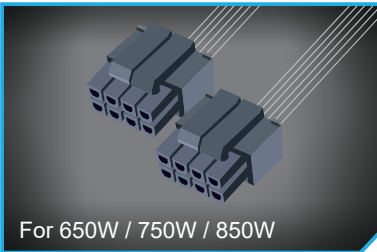
Product Overview

SFX to ATX Adapter Bracket
It helps you easily install an SFX power supply into an ATX, Micro-ATX or Mini-ITX chassis.

For 650W / 750W / 850W

Perfectly Supports Z390 Motherboard | RTX2080 VGA
The DAGGER PRO features with 2 sets of CPU 4+4 and PCI-E connectors to support high-end motherboard or RTX2080 VGA with supremely stable power.

2013 ErP/EuP Ready
The total AC power consumption of the completed system is less than 0.3W in standby mode.
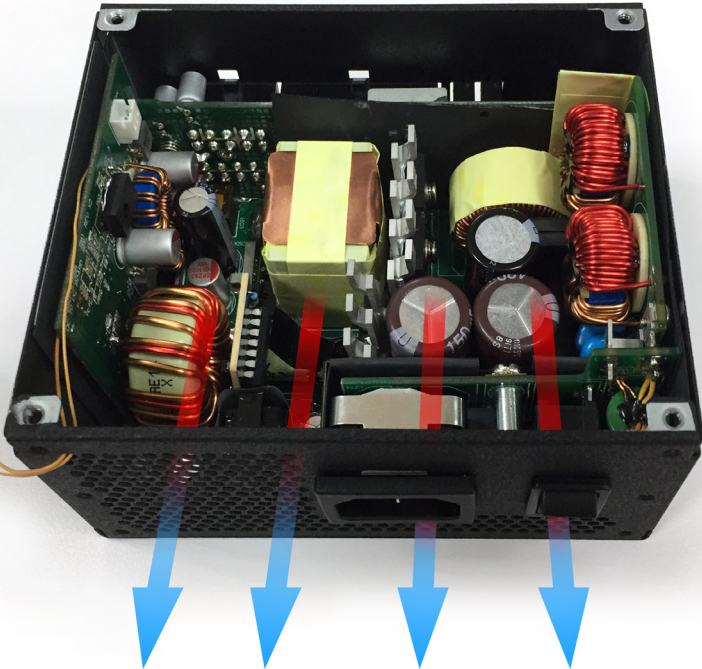
ENERGY SAVING

Full Modular Design with Ribbon Cable
Neat build and easy installation enhance cooling performance.

Product Overview

*Shown DAGGER PRO 850W

Innovative cooling layout
What is the distraction of developing high wattage SFX PSU? It's the heat.

First of all, DAGGER PRO series uses **Japanese electrolytic capacitors** to build the foundation for high temperature resistance, and **uses innovative PCB board circuit design** for transformers and inductance components that are most prone to high temperatures to form natural heat dissipation air ducts from the inside out to eliminate waste heat. Improve the endurance of the power supply and break through the limitations of small size, high waste heat, and small wattage, so that the SFX size power supply can reach 850W / 750W power output.

Tiny but powerful

It conforms to the standard small form factor size (125 x 100 x 63.5mm) and provides the highest 850W power output in the industry, demonstrating FSP's high power density R&D technology capabilities.
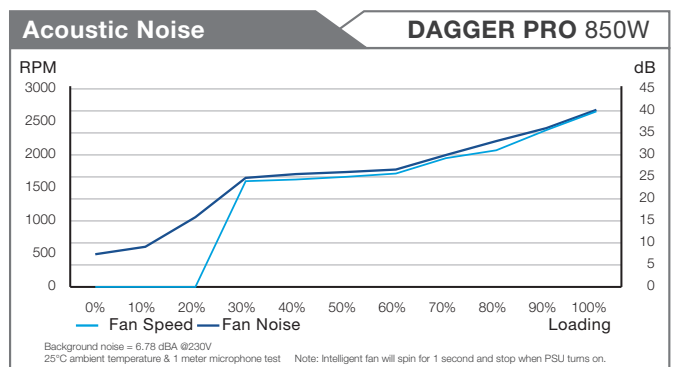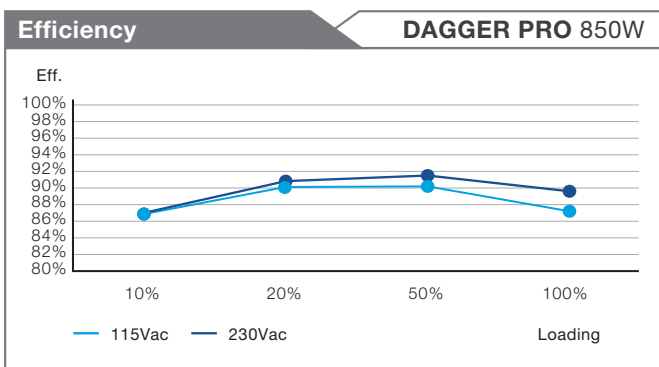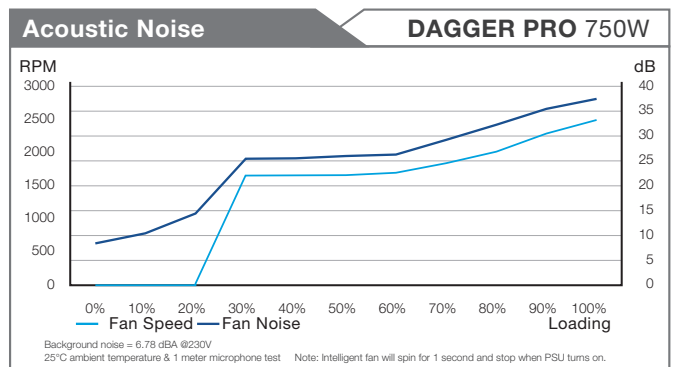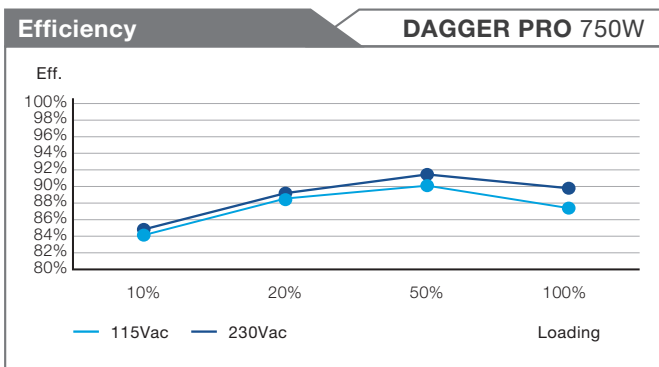
Performance

Efficiency — DAGGER PRO 550W

Eff. (94% – 80%) vs Loading (10%, 20%, 50%, 100%)
— 115Vac — 230Vac

Acoustic Noise — DAGGER PRO 550W

RPM (0–3000) / dB (15–40) vs Loading (0%–110%)
— Fan Speed — Fan Noise
25°C ambient temperature & 1 meter microphone test   Note: Intelligent fan will spin for 1 second and stop when PSU turns on.

Efficiency — DAGGER PRO 650W

Eff. (94% – 80%) vs Loading (10%, 20%, 50%, 100%)
— 115Vac — 230Vac

Acoustic Noise — DAGGER PRO 650W

RPM (0–4000) / dB (15–40) vs Loading (0%–110%)
— Fan Speed — Fan Noise
25°C ambient temperature & 1 meter microphone test   Note: Intelligent fan will spin for 1 second and stop when PSU turns on.

Efficiency — DAGGER PRO 750W

Eff. (100% – 80%) vs Loading (10%, 20%, 50%, 100%)
— 115Vac — 230Vac

Acoustic Noise — DAGGER PRO 750W

RPM (0–3000) / dB (0–40) vs Loading (0%–100%)
— Fan Speed — Fan Noise
Background noise = 6.78 dBA @230V
25°C ambient temperature & 1 meter microphone test   Note: Intelligent fan will spin for 1 second and stop when PSU turns on.

Efficiency — DAGGER PRO 850W

Eff. (100% – 80%) vs Loading (10%, 20%, 50%, 100%)
— 115Vac — 230Vac

Acoustic Noise — DAGGER PRO 850W

RPM (0–3000) / dB (0–45) vs Loading (0%–100%)
— Fan Speed — Fan Noise
Background noise = 6.78 dBA @230V
25°C ambient temperature & 1 meter microphone test   Note: Intelligent fan will spin for 1 second and stop when PSU turns on.

DAGGER PRO Series
550W / 650W / 750W / 850W

Rating

550W

AC Input	100-240V~, 8-4A ,50-60Hz				
DC Output	+3.3V	+5V	+12V	-12V	+5Vsb
Max Output Current	20A	20A	45A	0.3A	2.5A
Max Combined Power	120W		540W	3.6W	12.5W
Total Power	550W				

650W

AC Input	100-240V~, 10-5A ,50-60Hz				
DC Output	+3.3V	+5V	+12V	-12V	+5Vsb
Max Output Current	20A	20A	54A	0.3A	2.5A
Max Combined Power	120W		648W	3.6W	12.5W
Total Power	650W				

750W

AC Input	100-240V~, 10-6A ,50-60Hz (not for china)				
	200-240Vac 6A 50-60Hz (Only for china)				
DC Output	+3.3V	+5V	+12V	-12V	+5Vsb
Max Output Current	20A	20A	62.5A	0.3A	2.5A
Max Combined Power	120W		750W	3.6W	12.5W
Total Power	750W				

850W

AC Input	100-240V~, 12-6A ,50-60Hz (not for china)				
	200-240Vac 6A 50-60Hz (Only for china)				
DC Output	+3.3V	+5V	+12V	-12V	+5Vsb
Max Output Current	20A	20A	70.83A	0.3A	2.5A
Max Combined Power	120W		850W	3.6W	12.5W
Total Power	850W				

Specifications
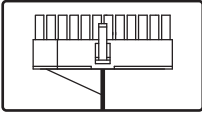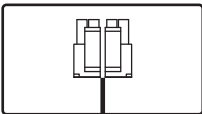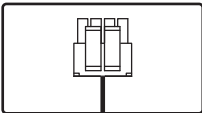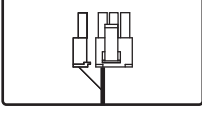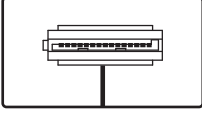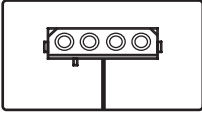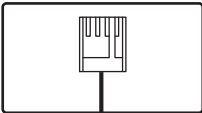
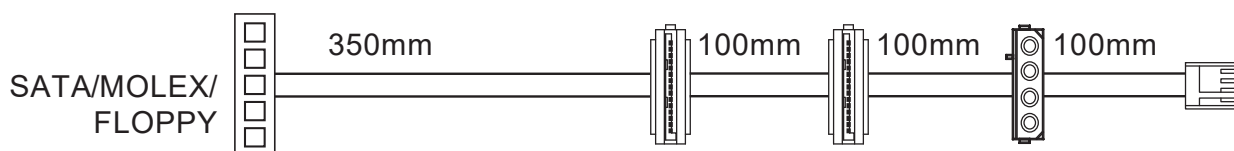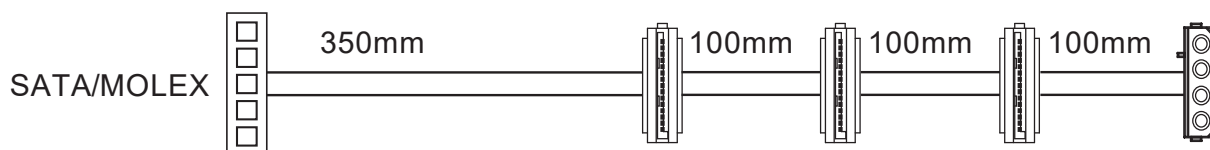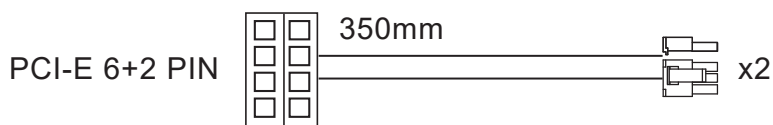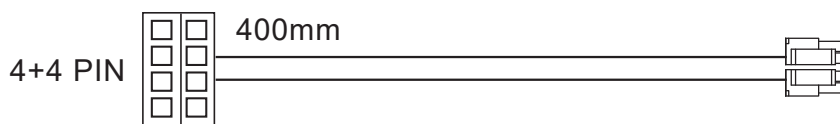|	**550W**	**650W**
Model	SDA2-550	SDA2-650
Type	SFX	SFX
PFC	Active PFC	Active PFC
Input Voltage	100-240V	100-240V
Input Current	8-4A	10-5A
Input Frequency	50-60Hz	50-60Hz
Output Capacity	550W	650W
Max. Output Power	550W	650W
Fan Type	ball bearing fan,92mm	ball bearing fan,92mm
Efficiency	90%	90%
MTBF	200,000 Hrs	200,000 Hrs
Protection	OCP, OVP, SCP, OPP, OTP	OCP, OVP, SCP, OPP, OTP
Weight	1.45 kg	1.52 kg
Dimension(L×W×H)	125 × 100 × 63.5 mm	125 × 100 × 63.5 mm

Specifications

	750W	850W
Model	SDA2-750	SDA2-850
Type	SFX	SFX
PFC	Active PFC	Active PFC
Input Voltage	100-240V	100-240V
Input Current	10-6A	12-6A
Input Frequency	50-60Hz	50-60Hz
Output Capacity	750W	850W
Max. Output Power	750W	850W
Fan Type	ball bearing fan,92mm	ball bearing fan,92mm
Efficiency	90%	90%
MTBF	200,000 Hrs	200,000 Hrs
Protection	OCP, OVP, SCP, OPP, OTP	OCP, OVP, SCP, OPP, OTP
Weight		
Dimension(L×W×H)	125 × 100 × 63.5 mm	125 × 100 × 63.5 mm

Connectors

	550W	650W	750W	850W
20+4 PIN	1	1	1	1
4+4 PIN	1	1	2	2
8 PIN	0	1	0	0
6+2 PIN	2	2	4	4
SATA	5	5	5	5
MOLEX	2	2	2	2
FLOPPY	1	1	1	1

Cable Length

550W

20+4 PIN — 500mm

4+4 PIN — 400mm

PCI-E 6+2 PIN — 350mm x2

SATA/MOLEX — 350mm 100mm 100mm 100mm

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

Cable Length

650W

20+4 PIN — 500mm

8 PIN / 4+4 PIN — 700mm / 150mm

PCI-E 6+2 PIN — 350mm ×2

SATA/MOLEX — 350mm / 100mm / 100mm / 100mm

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

Cable Length

750W / 850W

20+4 PIN — 500mm

4+4 PIN — 700mm

PCI-E 6+2 PIN — 500mm x2

SATA/MOLEX — 350mm 100mm 100mm 100mm

SATA/MOLEX/ FLOPPY — 350mm 100mm 100mm 100mm
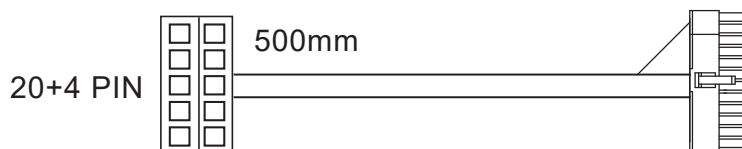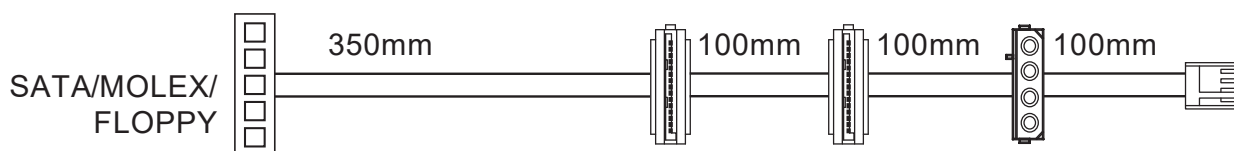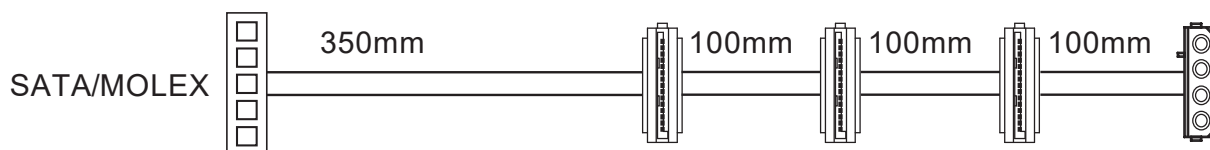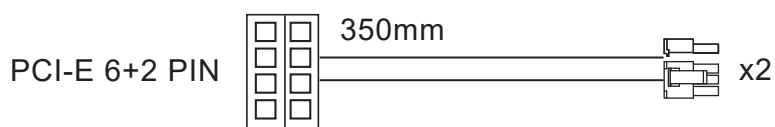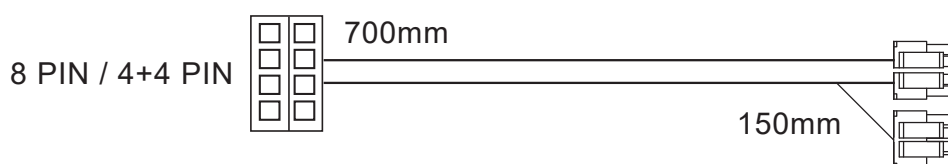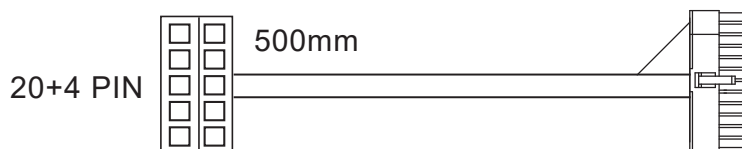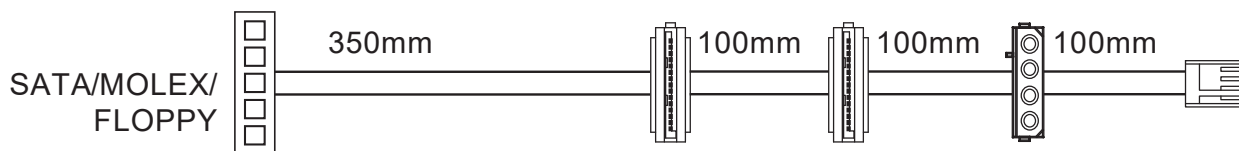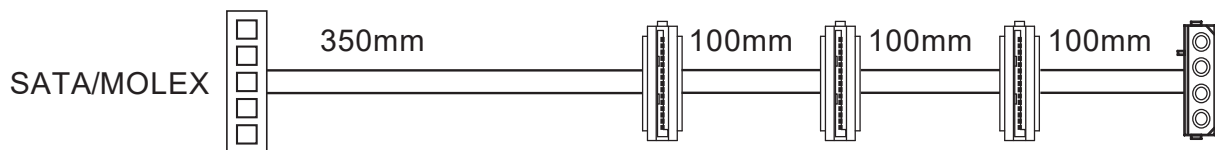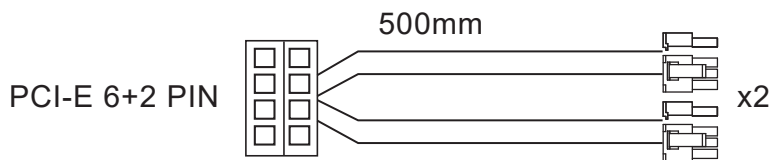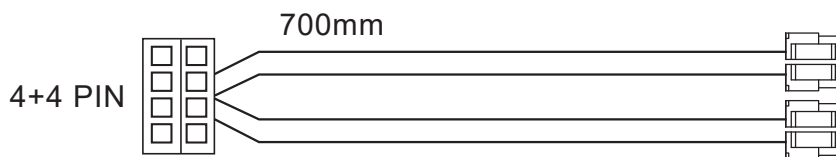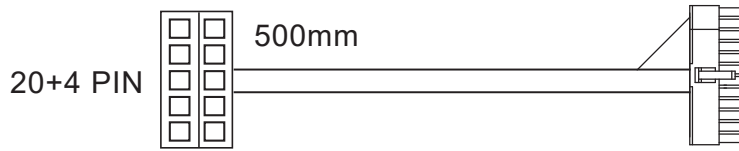
DAGGER PRO Series
550W / 650W / 750W / 850W

Package Information

Model	SDA2-550	SDA2-650
EAN Code	471322452206 2	471322452205 5
UPC Code	84568501027 8	84568501026 1
Retail Box Dimension (L×W×H)	184 × 236 × 106 mm	
Carton Dimension (L×W×H)	559 × 500 × 203 mm	
Retail Quantity per Carton	10 retail boxes per master package	
Master Pack Weight	18.91kg	19.62kg
Pallet Quantity	200	
Country of Origin	China	
Warranty	7 Years	
Additional Information	**550W** http://www.fsplifestyle.com/en/product/DAGGERPRO550W.html **650W** http://www.fsplifestyle.com/en/product/DAGGERPRO650W.html	

Package Information

Model	SDA2-750	SDA2-850
EAN Code	471322452546 9	471322452547 6
UPC Code	84568501263 0	84568501264 7
Retail Box Dimension (L×W×H)	184 × 236 × 106 mm	
Carton Dimension (L×W×H)	559 × 500 × 203 mm	
Retail Quantity per Carton	10 retail boxes per master package	
Master Pack Weight		
Pallet Quantity	200	
Country of Origin	China	
Warranty	10 Years	
Additional Information	**750W** http://www.fsplifestyle.com/en/product/DAGGERPRO750W.html **850W** http://www.fsplifestyle.com/en/product/DAGGERPRO850W.html	