Fractal

Product Sheet
Ion Gold

English Version

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Ion Gold

The power of balance.

The Ion Gold ATX is a high-performance power supply, featuring great electrical performance, quiet operation with a big 140 mm Dynamic series fan, and an attractive design.

Tailored specifically for anyone looking for a high-quality power supply at a competitive price, the Ion Gold comes packed with capability. It is fully modular for reduced clutter, installs easily thanks to its 150 mm depth, and comes with a 7-year warranty as well as a full electrical protection suite for peace of mind.

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Key features

- 80PLUS® Gold Efficiency rating for reduced noise and energy consumption

- Supports ATX 2.52 with improved start-up time and transient load response

- DC-DC design for more precise electrical output and full compatibility with modern components

- Premium Japanese 105°C capacitor(s) on the primary side for superior reliability and durability

- Fully modular design for reduced clutter and maximum ease of installation

- Equipped with a large temperature-controlled Fractal Design Dynamic 140 mm fan, custom-tailored for power supply use with an exceptionally low minimum speed

- Compact 150 mm depth allows for installation in compact cases or provides additional cable management room in larger cases

- Long 7-year warranty and a full electrical protection suite provides peace of mind

General specifications

80PLUS® certification	• Gold
Modular cables	• Fully modular
Fan type	• 140 mm LLS bearing Fractal Design Dynamic series fan
Maximum operating temperature (full load)	• 40°C
	• 50°C at 80% load
Semi-passive operation	• No
Capacitors	• Primary side: Japanese 105° main bulk capacitor(s)
	• Secondary side: Taiwanese 105°C electrolytic & solid-state capacitors
Life expectancy	• 100,000 hours
PSU specification compliance	• ATX12V 2.52; EPS12V 2.92
PSU color	• Black
Cable type	• Modular 24-pin cable: Black wires in braided sleeve
	• Other modular cables: Flat black wires
Input voltage	• 100-240V AC
Input frequency	• 50-60 Hz
Input current	• 10A/5A
Protection features	• Over voltage protection
	• Under voltage protection
	• Over-power protection
	• Short circuit protection
	• Over current protection
	• Over temperature protection

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General specifications

Standby efficiency	• ErP 2013 (<0.45W @ 230 VAC, 45mA load on +5Vsb)
Sleep state compliance	• C6/C7 compatible
Approvals & certifications	• CE, FCC, KCC, TUV, cTUVus, EAC, RCM, CCC, BSMI, CB, RoHS, WEEE
Unit dimensions - LxWxH	• 150 x 150 x 86 mm
Net weight (unit & DC cables)	• 550 – 2.06kg
	• 650 – 2.13kg
	• 750 – 2.31kg
	• 850 – 2.41kg
Package dimensions – LxWxH	• 300 x 110 x 210 mm
Package weight	• 550 – 2.46kg
(without power cord)	• 650 – 2.53kg
	• 750 – 2.69kg
	• 850 – 2.81kg
Warranty	• 7 years

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General specifications

Connectors	Ion Gold 550W	Ion Gold 650W	Ion Gold 750W	Ion Gold 850W
ATX 24-pin	• 1	• 1	• 1	• 1
EPS/ATX12V	• 1	• 1	• 2	• 2
PCIe	• 2	• 4	• 4	• 6
SATA	• 6	• 6	• 8	• 8
Peripheral	• 3	• 3	• 3	• 3

Cable Configuration (length in mm between connectors)	Ion Gold 550W	Ion Gold 650W	Ion Gold 750W	Ion Gold 850W
ATX 24-pin	• 500	• 500	• 500	• 500
ATX 12V 4+4 pin	• 600	• 600	• 600	• 600
EPS12V 8-pin	• N/A	• N/A	• 600	• 600
PCIe 6+2 pin	• 550+150	• 550+150	• 550+150	• 550+150
SATA	• 500+150+150	• 500+150+150	• 500+150+150+150	• 500+150+150+150
Peripheral	• 500+150+150	• 500+150+150	• 500+150+150	• 500+150+150

DC Output	Ion Gold 550W	Ion Gold 650W	Ion Gold 750W	Ion Gold 850W
3.3V	• 20A	• 20A	• 22A	• 22A
5V	• 20A	• 20A	• 22A	• 22A
3.3V and 5V combined	• 110W	• 110W	• 120W	• 120W
12V	• 45.8A	• 54.1A	• 62.5A	• 70.8A
-12V	• 0.3A	• 0.3A	• 0.3A	• 0.3A
+5Vsb	• 3A	• 3A	• 3A	• 3A
Total Power	• 550W	• 650W	• 750W	• 850W

Package contents

- Ion Gold power supply
- Modular cables
- Screw pack with velcro cable ties
- AC power cord (localized)
- User manual

Additional information

Product	SKU	EAN	UPC	JAN
Ion Gold 550W - ATX	FD-P-IA2G-550	7340172702771	843276102777	4537694281683
Ion Gold 650W - ATX	FD-P-IA2G-650	7340172702788	843276102784	4537694281690
Ion Gold 750W - ATX	FD-P-IA2G-750	7340172702795	843276102791	4537694281706
Ion Gold 850W - ATX	FD-P-IA2G-850	7340172702801	843276102807	4537694281713

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