



## P r o d u c t S h e e t

# Ion+ Platinum

The power of silence.

The Ion+ Platinum is a high-performance fully modular PSU with whisper-quiet operation, enhanced cable flexibility and superior output quality.

A user selectable semi-passive Zero RPM mode maintains pure silence under light loads, and the custom-tailored 140mm fan with FDB bearings barely breaks a whisper under heavy use. Revolutionary UltraFlex cable with its ultra-high strand count wire and special insulation bends and twists effortlessly to make installation and cable-routing a breeze.

Ion+ is available now in 560, 660, 760 and 860 watt capacities, all with 80PLUS® Platinum Efficiency, 10-year warranty, and a full electrical protection suite for your peace of mind.





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### Key features

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- Fractal Design UltraFlex DC wires have game-changing flexibility for effortless cable-routing and connectors that twist and bend to fit your installation—not fight it
- Equipped with a custom-tailored Fractal Design Dynamic Series 140 mm fan with exceptionally low minimum speed and true long-life FDB bearing
- 80PLUS® Platinum Efficiency for optimized electrical performance and reduced heat generation
- User selectable Zero RPM mode allows for either silent, passive operation in low load situations or continuous low speed fan operation for additional cooling
- Outstanding output quality with tight voltage regulation and extremely low noise and ripple
- Fully modular design for reduced clutter and maximum ease of installation
- Premium Japanese 105° C capacitors provide enhanced reliability and durability
- Compact 150 mm depth easily fits compact spaces with extra headroom for cable management
- Over Power Protection, Over Voltage Protection, Short Circuit Protection, Under Voltage Protection, Over Current Protection and Over Temperature Protection
- Extra-long 600 mm 24-pin ATX cable and 700 mm 4+4 pin cable
- Extensive 10 year warranty



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## General specifications

| Specification                             |                                                                                                                                                                                |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 80PLUS® Certification                     | • Platinum                                                                                                                                                                     |
| Modular cables                            | • Fully modular                                                                                                                                                                |
| Fan type                                  | • Customized 140 mm FDB bearing Fractal Design Dynamic Series fan                                                                                                              |
| Maximum operating temperature (full load) | • 50° C                                                                                                                                                                        |
| Semi-passive operation                    | • Yes, user selectable (Zero RPM)                                                                                                                                              |
| Capacitors                                | • Japanese                                                                                                                                                                     |
| Life expectancy (MTBF) at max output load | • 100,000 hours                                                                                                                                                                |
| PSU specification compliance              | • ATX12V 2.4 ; EPS12V 2.92                                                                                                                                                     |
| Cable type                                | • Modular 24-pin: Braided sleeve UltraFlex wire<br>• Others: Flat UltraFlex wire                                                                                               |
| PSU Color                                 | • Black/Gunmetal                                                                                                                                                               |
| Cable Color                               | • Black                                                                                                                                                                        |
| Protection features                       | • Over voltage protection<br>• Under voltage protection<br>• Over power protection<br>• Short circuit protection<br>• Over current protection<br>• Over temperature protection |
| Input voltage                             | • 100-240V AC                                                                                                                                                                  |
| Input frequency                           | • 50-60 Hz                                                                                                                                                                     |
| Input current                             | • 10A/5A                                                                                                                                                                       |

## General specifications

| Specification              |                                                             |
|----------------------------|-------------------------------------------------------------|
| Number of 12V rails        | • 1                                                         |
| Standby efficiency         | • ErP 2013 (<0.45W @230<br>• VAC, 45 mA load on +5Vsb)      |
| Sleep State Compliance     | • C6/C7                                                     |
| Approvals & Certifications | • CE, FCC, TUV, cTUVus, EAC, RCM, CCC, BSMI, CB, RoHS, WEEE |
| Unit dimensions (LxWxH)    | • 150 x 150 x 86 mm                                         |
| Net weight (unit only)     | • 1.61 kg (560P/660P) / 1.665 kg (760P/860P)                |
| Package dimensions (LxWxH) | • 325 x 110 x 210 mm                                        |
| Package weight             | • 2.6 kg (560P) / 2.65 kg (660P) / 2.975 kg (760P/860P)     |
| Warranty                   | • 10 Years                                                  |

## Connectors

|            | • Ion+ 560P | • Ion+ 660P | • Ion+ 760P | • Ion+ 860P |
|------------|-------------|-------------|-------------|-------------|
| ATX        | • 1         | • 1         | • 1         | • 1         |
| EPS        | • 0         | • 0         | • 1         | • 1         |
| PCIe       | • 4         | • 4         | • 6         | • 6         |
| SATA       | • 6         | • 10        | • 10        | • 10        |
| Peripheral | • 4         | • 4         | • 4         | • 4         |

## Cable Configuration (length in mm between connectors)

|                 | • Ion+ 560P       | • Ion+ 660P       | • Ion+ 760P       | • Ion+ 860P       |
|-----------------|-------------------|-------------------|-------------------|-------------------|
| ATX 24-pin      | • 600             | • 600             | • 600             | • 600             |
| ATX 12V 4+4 pin | • 700             | • 700             | • 700             | • 700             |
| EPS12V 8-pin    | • N/A             | • N/A             | • 600             | • 600             |
| PCIe 6+2 pin    | • 550+120         | • 550+120         | • 550+120         | • 550+120         |
| SATA            | • 400+120+120+120 | • 400+120+120+120 | • 400+120+120+120 | • 400+120+120+120 |
|                 | • 650+120         | • 650+120         | • 650+120         | • 650+120         |
| Peripheral      | • 400+120+120+120 |                   |                   |                   |

## DC Output

|                      | • Ion+ 560P | • Ion+ 660P | • Ion+ 760P | • Ion+ 860P |
|----------------------|-------------|-------------|-------------|-------------|
| 3.3V                 | • 20A       | • 20A       | • 22A       | • 22A       |
| 5V                   | • 20A       | • 20A       | • 22A       | • 22A       |
| 3.3V and 5V combined | • 110W      | • 110W      | • 120W      | • 120W      |
| 12V                  | • 46.6A     | • 55.0A     | • 63.3A     | • 71.6A     |
| -12V                 | • 0.3A      | • 0.3A      | • 0.3A      | • 0.3A      |
| +5Vsb                | • 3A        | • 3A        | • 3A        | • 3A        |
| Total Power          | • 560W      | • 660W      | • 760W      | • 860W      |



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## DC Voltage Regulation

|                                    | • <b>+3.3V</b> | • <b>+5V</b> | • <b>+12V</b> |
|------------------------------------|----------------|--------------|---------------|
| Fractal Design Ion+, typical value | • <0.25%       | • <0.25%     | • <0.35%      |
| ATX Specifications, maximum value  | • <5%          | • <5%        | • <5%         |

## Ripple and Noise

|                                    | • <b>+3.3V</b> | • <b>+5V</b> | • <b>+12V</b> |
|------------------------------------|----------------|--------------|---------------|
| Fractal Design Ion+, typical value | • <15mV        | • <15mV      | • <15mV       |
| ATX Specifications, maximum value  | • <50mV        | • <50mV      | • <120mV      |



# P r o d u c t S h e e t

## Package contents

- Ion+ PSU with protective bag
- Modular cables in a convenient storage bag
- Screw pack with Velcro cable ties
- AC power cord (localized)
- User manual

## Additional information

| Product   | SKU                 | EAN           | UPC          | JAN           |
|-----------|---------------------|---------------|--------------|---------------|
| ION+ 560P | FD-PSU-IONP-560P-BK | 7340172701958 | 843276101954 | 4537694270021 |
| ION+ 660P | FD-PSU-IONP-660P-BK | 7340172701941 | 843276101947 | 4537694270014 |
| ION+ 760P | FD-PSU-IONP-760P-BK | 7340172701934 | 843276101930 | 4537694270007 |
| ION+ 860P | FD-PSU-IONP-860P-BK | 7340172701927 | 843276101923 | 4537694269995 |