

## Edison M Series

The Fractal Design Edison M series of power supplies feature excellent electrical performance, including 80PLUS® Gold certified efficiency.

Designed for maximum reliability, the Edison M units feature Japanese electrolytic capacitors with a full protection suite, including over-temperature protection. The modular cable system assists with a clean installation and the extra-long ATX12V cable accommodates cases with bottom mounted PSU positions.

Fractal Design Edison M units are equipped with a large, temperature-controlled FDB-bearing 120mm fan contributing to a maximum lifespan while keeping noise levels at a minimum.

The Edison M is a highly reliable choice, for both gaming computers and powerful workstations.

### Key features

- Modular construction to assist with a clean build with only the most essential cables permanently attached
- 80PLUS Gold efficiency with a 5 year warranty on the PSU
- ATX 2.4 compliant, including full support for the new C6 / C7 power states introduced with the 4th generation Intel Core CPUs
- DC-DC design for improved system stability and maximum 12V output
- Tight voltage regulation: +/- 2% for +12V and +/- 3% for minor rails
- Japanese electrolytic capacitors, rated at 105°C; Japanese and Taiwanese solid polymer capacitors
- Extra-long ATX 12V cable
- Silent, temperature-controlled 120mm fan with quiet, long-life FDB bearings
- Full protection suite: Over Power Protection, Over Voltage Protection, Short Circuit Protection, Under Voltage Protection, Over Current Protection and Over Temperature Protection.
- Sleek look to add to the overall design of your build



Description	Art. Number	EAN Code	UPC Code
<b>Edison M 450W</b>	FD-PSU-ED1B-450W	7350041082439	817301012430
<b>Edison M 550W</b>	FD-PSU-ED1B-550W	7350041082446	817301012447
<b>Edison M 650W</b>	FD-PSU-ED1B-650W	7350041082453	817301012454
<b>Edison M 750W</b>	FD-PSU-ED1B-750W	7350041082460	817301012461

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## General Specifications

80PLUS® Certification	<ul style="list-style-type: none"> <li>• Gold</li> </ul>
Modular cables	<ul style="list-style-type: none"> <li>• Yes</li> </ul>
Modular cable type	<ul style="list-style-type: none"> <li>• All-black flat cables</li> </ul>
Fan type	<ul style="list-style-type: none"> <li>• 120mm FDB bearing</li> <li>• Temperature controlled</li> </ul>
Maximum operating temperature at full load	<ul style="list-style-type: none"> <li>• 40°C</li> <li>• 50°C at 80% load</li> </ul>
Fully Intel Haswell C6/C7 compliant	<ul style="list-style-type: none"> <li>• Yes</li> </ul>
Warranty	<ul style="list-style-type: none"> <li>• 5 years</li> </ul>
Capacitors	<ul style="list-style-type: none"> <li>• Japanese (Electrolytic)</li> <li>• Japanese/Taiwanese (Polymer)</li> </ul>
Protections	<ul style="list-style-type: none"> <li>• OPP / OVP / UVP / SCP / OCP / OTP</li> </ul>
Life expectancy (MTBF)	<ul style="list-style-type: none"> <li>• 100,000 hours</li> </ul>
PSU specification compliance	<ul style="list-style-type: none"> <li>• ATX 2.4 / EPS 2.92</li> </ul>
Standby efficiency	<ul style="list-style-type: none"> <li>• ErP 2013 compliant (&lt;0.5W system power draw)</li> </ul>
Colors Available	<ul style="list-style-type: none"> <li>• Black</li> </ul>
Unit Measurements - W x H x D (mm)	<ul style="list-style-type: none"> <li>• 150*86*160</li> </ul>
Unit weights, with modular cables (kg)	<ul style="list-style-type: none"> <li>• 450: 2.1</li> <li>• 550: 2.2</li> <li>• 650: 2.4</li> <li>• 750: 2.5</li> </ul>
Package dimensions - W x H x D (mm)	<ul style="list-style-type: none"> <li>• 299*185*122</li> </ul>
Package weight – (Kg) (with EU/US cord)	<ul style="list-style-type: none"> <li>• 450: 2.7</li> <li>• 550: 2.8</li> <li>• 650: 3.0</li> <li>• 750: 3.1</li> </ul>

## Package contents

- Edison M Power Supply
- Modular cable kit
- AC power cord (localized)
- Zip ties and PSU screws
- User manual

## Cable configuration

Fixed Cables (length in mm, + designates a second connector on the same cable)

Model	450W	550W	650W	750W
ATX 20+4 pin	550	550	550	550
ATX12V 4+4 pin	700	700	700	700
PCI-E 6+2 pin	-	-	580+100	580+100

Modular cables (length in mm, + designates a second connector on the same cable)

Model	450W	550W	650W	750W
EPS12V 8-pin	-	-	-	650
PCI-E 6+2 pin	550+100	550+100 550+100	550+100 550+100	550+100 550+100
Peripheral	400+120+120 300+120	400+120+120 300+120	400+120+120 300+120	400+120+120 300+120
SATA	400+120+120+120 650+120	400+120+120+120 650+120	400+120+120+120 350+120 650+120	400+120+120+120 400+120+120+120 650+120

## DC Output

Model	450W	550W	650W	750W
3.3V	20A	20A	20A	20A
5V	20A	20A	20A	20A
3.3V and 5V combined	100W	100W	100W	100W
12V1	37A	45A	54A	62A
-12V	0.3A	0.3A	0.3A	0.3A
5V Standby (+5Vsb)	2.5A	2.5A	2.5A	2.5A
Total Power	450W	550W	650W	750W

## DC Voltage Regulation

	+3.3V	+5V	+12V	-12V	+5Vsb
ATX Specification	<5%	<5%	<5%	<10%	<5%
Fractal Design Edison M	<3%	<3%	<2%	<6%	<3%

## Ripple and Noise

	+3.3V	+5V	+12V	-12V	+5Vsb
ATX Specification	<50mV	<50mV	<120mV	<120mV	<50mV
Fractal Design Edison M	<40mV	<40mV	<50mV	<60mV	<35mV