



Welcome to Seasonic USA

[About Us](#) | [Products](#) | [Service](#) | [Where to Buy](#) | [Seasonic Store](#)

[Seasonic TW / EU](#)

## Products

### ▶ RETAIL

#### Power Supplies

Snow Silent Series

750 / 1050

Platinum Series

1200

Platinum Series

860 / 1000

Platinum Series

660 / 760 / 860

Platinum Series

Fanless

400 / 460 / 520

X series

XM2-1050 / 1250

X series

1050 / 1250

X series

760

X series

650 / 750 / 850

X Series

G Series

450 / 750

G Series

550 / 650

G Series 360

M12II Bronze

650 / 750 / 850

**M12II Bronze**

S12II Bronze

350 / 430 / 520 / 620

M12II EVO Edition

S12G

TFX 350

#### Gaming Peripherals

Topre Keyboard

### ▶ BULK

PC Power Supply

ATX



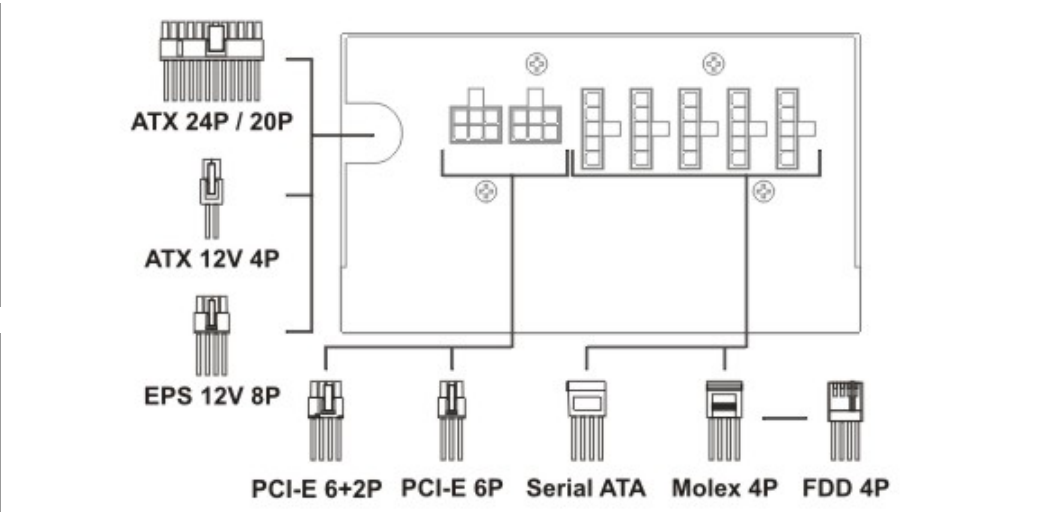
#### Introduction

Sea Sonic Electronics launches the M12II "Bronze" Series, the new and upgraded version of the M12II "Bronze" Series in response to the growing demand and anticipation for more energy-efficient products. The M12II Bronze Series inherits the same output and wattage options as well as the superb quality and ultimate silence from the M12II Series. The M12II, available in 500 watts, offers buyers with a mid range power output solution with cable management, to meet their exact system needs; cable management is now made easier than ever.

SFX  
TFX  
OEM Brown Box  
IPC & Server PSU  
1U  
2U  
▶ Adapter  
▶ Open Frame  
▶ Enclosed  
Power Supply  
▶ DC to DC Board

M12II-Bronze Series

User Manual  
Warranty Card  
Brochure



The M12II Bronze Series achieves the 80 PLUS® Bronze standard of at least 82%, 85% and 82% efficiency under 20%, 50% and 100% operating loads respectively. Combined with Active Power Factor correction (Active PFC), the M12II Bronze reduces energy waste, boosts power efficiency and more importantly, helps the users to save energy and reduce electricity bill.



While upgrading in efficiency, the M12II Bronze Series maintains the advanced designs and quality components from the past M12II line. Such designs and components including Double Forward Converter design, Smart and Silent Fan Control and highly reliable Japanese brand capacitor also boost the overall performance in stability and silence. The M12II Bronze Series is available in standard ATX Form Factor and in wattages that are beneficial for a PC system. With the all-in-one cabling design and EPS connectors, the M12II Bronze Series is geared to support IPC and server systems and as well, both 6P & 8P PCI-E connector for latest and high end dual graphic cards. Moreover, the modular design also provides a flexible solution for orderly cable management.



The M12II Bronze Series is made reliable by featuring safety regulations such as Over Voltage Protection (OVP), Short Circuit Protection (SCP), and Over Power Protection (OPP). Major safety and EMC directives and as well, the environmental certifications RoHS and WEEE increase safety and usage reliability for the users.

Special Features





**Super High Efficiency [up to 87%]**

Green solution for reducing energy consumption, noise and heat.



**Highly Reliable 105°C Japanese Brand Capacitors**

Exceptionally reliable components extend product life.



**Ample +12V Outputs**

Enhanced +12V current capability broadens utilization possibilities.



**Active Power Factor Correction [99% PF Typical]**

Reduces line loss and power distortion.



**Double Forward Converter Design**

Advanced topology for high efficiency.



**Smart & Silent Fan Control [S²FC]**

Intelligent thermal control balances between noise and cooling.



**12cm Ball Bearing Cooling Fan**

Increases airflow & lifetime and reduces rotation speed & noises.



**Soft-Mount Rubber Cushions**

Reduce fan rotation and vibration noise.



**Universal Video Card Support**

Supports new PCI-E video card technologies.



**All-in-One DC Cabling Design**

Supports PC, IPC, workstation and server systems.



**Detachable Modular Cables**

Flexible cable solution to reduce clutter.



**Patented Easy Swap Connectors**

Unplug the connectors easily, quickly and safely.



**Universal AC Input [Full Range]**

Plug and run safely anywhere around the world.



**Ultra Ventilation [Honeycomb Structure]**

Minimizes airflow resistance for maximum cooling.



**5 Year Warranty**

Our commitment to superior quality.

Product Information

1. AC input & DC output voltages ( 100~240V, 50/60Hz )

Model	+3.3V	+5V	+12V1	+12V2	-12V	+5Vsb	Total Power
M12II-520Bronze	24A	24A	20A	20A	0.8A	2.5A	520W
	130W		480W		9.6W	12.5W	
M12II-620Bronze	24A	24A	24A	24A	0.8A	2.5A	620W
	130W		576W		9.6W	12.5W	

2. Wire Configuration

Cable								
Model	Main Power (20 / 24P)	EPS12V / ATX12V (8/4P)	EPS12V (8P)	Peripheral (4P)	SATA	FDD(4P) (Y-adapter)	PCI-E (6P)	PCI-E (6P / 8P)
M12II-520Bronze	1	1	1	6	6	2	1	1
M12II-620Bronze	1	1	1	6	9	2	1	1

3. Dimension: W160 x L150 x H86 mm

4. Total Protection

Over Voltage / Over Power / Short Circuit Protection  
Total protection for your power supply, your system and yourself.

5. Operating Environment

Operating temperature: 0 to 50°C. Relative Humidity: 20% to 80%.  
(The rated power will reduce from 100% to 80% from 40°C to 50°C)  
Relative Humidity: 20% to 80%.

[About Us](#) | [Products](#) | [Service](#) | [Where to Buy](#) | [Seasonic Store](#)

Copyright © 2005 SeaSonic Electronics Co., Ltd. All Rights Reserved.