

# Switch Mode Power Supply

## ATX12V v2.2 & EPS12V v2.9~ 12cm fan Active PFC



www.seasonic.com



Dimension: L150 x W160 x H86mm  
(5.9" x 6.3" x 3.4")



The First 80PLUS Certified Module PSU



### Features

- Specification compliance: ATX12V v2.2 & EPS12V v2.9
- Support the latest Intel Core 2 Duo / Extreme & AMD AM2
- 80PLUS Certified: over 80% efficiency
- Multiple +12V output
- Double forward converter design
- Dual Magnetic amplifiers
- Dual fan cooling
- Smart & Silent fan control
- Low ripple & noise
- Short circuit protection on all outputs
- Over voltage protection
- Over power protection
- 100% hi-pot test
- 100% burn in, high temperature cycled on/off

### AC input voltage & DC output

Model	DC output								Input voltage		
	+3.3V	+5V	+12V1	+12V2	+12V2	+12V2	-12V	+5Vsb	Total power	Full range	Fixed 220V
M12-700(SS-700HM Active PFC)	24A	30A	18A	18A	18A	18A	0.8A	3A	700W	Yes	---
	170W Max. <sup>1</sup>		56A		9.6W		15W				
M12-600(SS-600HM Active PFC)	24A	30A	18A	18A	18A	18A	0.8A	3A	600W	Yes	---
	170W Max. <sup>1</sup>		48A		9.6W		15W				
M12-500(SS-500HM Active PFC)	24A	30A	18A	18A	18A	18A	0.8A	3A	500W	Yes	---
	170W Max. <sup>1</sup>		38A		9.6W		15W				

Remarks: 1. Combined +3.3VDC & +5V DC maximum power

specification may change without prior notice

### Wire Configuration

Model	Connector	Main Power 24 / 20P	ATX12V 4P	EPS12V 8P	Peripheral 4P	STAT	FDD 4P	PCI-E 6P
M12-700(SS-700HM Active PFC)		1	1	1	10	8	2	4
M12-600(SS-600HM Active PFC)		1	1	1	10	8	2	2
M12-500(SS-500HM Active PFC)		1	1	1	10	8	2	2

### Electrical Specification

- Input frequency: 47/63Hz
- In-rush current, cold start: 100A max.
- Hold up time, full load: 12ms. typical
- Efficiency: at normal input voltage >80%
- Line regulation: '+/- 1% typical
- Load regulation: '+/- 5% typical
- Cross regulation: '+/- 5% typical
- Ripple / noise: 1%
- Standby mode <5W
- MTBF, full load @ 25°C amb. Excluding the DC fan: >100k hrs
- Power Factor Correction: Active PFC 99% typical

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### Safety compliance

CUL, TUV, CB, CCC, D, N, S, FI, GOST-R, BSMI

### EMI/RFI compliance

CE, FCC, C-tick

ISO 14001



REGISTERED FIRM



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