

PC Personal Computer



Industrial 1U / 2U

Switch Mode Power Supply

Sea Sonic Electronics Co., Ltd. has maintained a continuous focus on R&D and the production of quality power conversion products since 1975. The company is headquartered in Taipei, with production facilities in Guangdong, China, and subsidiaries in U.S.A. and the Netherlands. Over the past decades, Sea Sonic Electronics has provided timely and professional solutions to meet many of the IT industry's requirements.

Sea Sonic Electronics successfully entered the telecommunication and networking power conversion market in the year 2000. At the same time, manufacturing facilities were expanded to provide JIT global logistics service to meet increased business demand.



Company Profile

Company name: Sea Sonic Electronics Co., Ltd.

Company Type: Public Limited Corporation

Incorporated: 1975

Paid-in Capital: USD 26million

Head Office: Sea Sonic Electronics Co., Ltd. 8F, No. 19, Alley 360, Sec.1 Neihu Road Neihu, Taipei Taiwan

Factory: Dong Guan Seasonic Electronics Co., Ltd. Dongguan City, Guang Dong, China



Since the incorporation of Sea Sonic Electronics Co., Ltd. in 1975, we have maintained our focus on research and development and the production of quality power conversion products.

For the past decades, supported by cutting edge technology based upon a strong research and development team,

Sea Sonic Electronics has provided timely and professional solutions to meet many of the IT industry's requirements.

Innovation & Diversification

To develop "GREEN" power supplies with features:

High Efficiency

Improving efficiency to reduce energy consumption.

High Reliability

Improving reliability & lifetime to reduce material waste.

Broad Working Temperature Range

Increasing Working Temperature Range to -30°C~70°C

Compact Form Factor

More Convenient for System Assembly

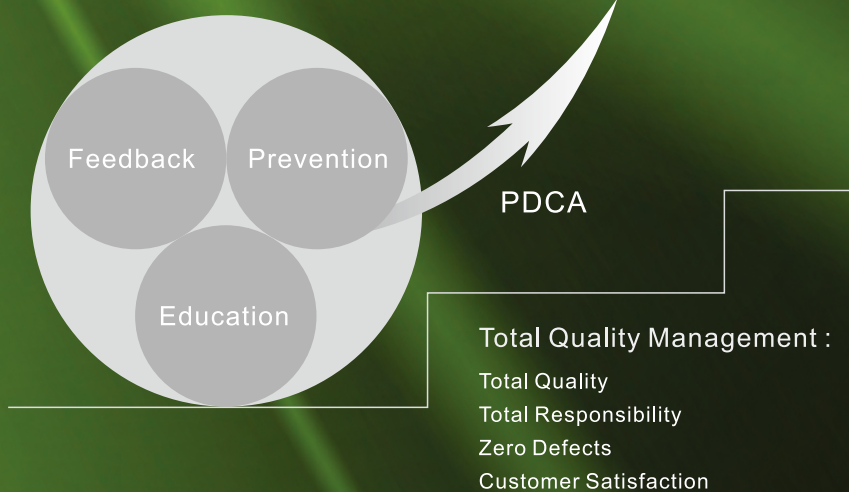
Quality

All Seasonic products are designed and manufactured in our ISO certified research and production facilities to ensure high quality, reliability and stability in our products for our customers. All our products comply with governmental safety and EMI regulations and quality tested and assured by our Quality Control Flow process to ensure continued advancement in our Total Quality Management concept.

ISO 9001 certification for Sea Sonic Electronics and Dongguan Seasonic.



Upward moving TQM progress



R&D

Over 40 years of history enables our engineers to accumulate broad based experiences, these are our company's strength. As well, our R&D team's history can be considered the longest in our industry in Taiwan. With this advantage, Sea Sonic maintains our competitive edge in our business.



Commitment : To continually develop and improve "GREEN" power supplies with high efficiency, high power output and super low noise.






Features in specific models

Efficiency Support

About the 80 PLUS® Program

The 80 PLUS® program was designed and is administered by Ecos Consulting (www.ecosconsulting.com), an energy efficiency firm that leverages the power of the market to accelerate sales of energy-efficient technologies.

All 80 PLUS® power supplies offer at least 80% of efficiency at 20%, 50% and 100% of operating loads with a power factor of 0.9 or better (Active Power Factor Correction).

Efficiency Percent Loading	80 PLUS® standard					
	80 PLUS® Climate Saver 1 PFC .90 at 100%	80 PLUS® Bronze Climate Saver 2 PFC .90 at 50%	80 PLUS® Silver Climate Saver 3 PFC .90 at 50%	80 PLUS® Gold Climate Saver 4 PFC .90 at 50%	80 PLUS® Platinum Climate Saver 5 PFC .95 at 50%	80 PLUS® Titanium Climate Saver 6 PFC .95 at 50%
20%	80%	82%	85%	87%	90%	94%
50%	80%	85%	88%	90%	92%	96%
100%	80%	82%	85%	87%	89%	91%



Compliant with Erp Lot 6 2013

Build up high +5Vsb efficiency to meet Erp Lot 6 designs in AC input power < 0.45W at any output loading less than 45mA condition, including no load condition under standby and off-mode.



Meet with Intel Haswell mode

Support to the most efficient processor of New Intel Microarchitecture "Haswell" technology which brings significant performance and optimize the power savings to work under 12V minimum load at .005A in C6/C7 mode.



Ready to Support ENERGY STAR Systems

Complete "Green PC Technology" to reduce energy consumption during all operational modes (Active Mode, Idle Mode, Sleep Mode and Standby Mode).



Active Power Factor Correction [99 % PF Typical]

Reduces line loss and power distortion.

Topology design



Ample +12 V Outputs

Enhanced +12 V current capability broadens utilization possibilities.



Tight Voltage Regulation [± 3%]

Improves load regulation to reduce voltage variations to provide smooth and stable operations.



Universal AC Input [Full Range]

Can safely be connected anywhere in the world.



Seasonic Advanced DC to DC Voltage Regulation Module

Seasonic's advanced DC to DC voltage regulation module minimizing voltage drops and impedance. It greatly maximizes efficiency and cooling to enhance overall performance and reliability.



Fan Control



Sanyo Denki - San Ace Silent Fan

The world-renowned Sanyo Denki ball bearing fans are made of the highest quality components to ensure maximum quality and performance. The spoon shaped high-density plastic fan blades with smoothed leading edges, the strict tolerance ball bearings and the precision copper axel are just some of the features to ensure ultra low noise performance and top quality. The use of three balancing points, instead of the industry standard of two points, helps to achieve perfect balance and rotation. The Sanyo Denki fan is a perfect match for the class leading Sea Sonic Hybrid Silent Fan control for the absolute top performance in the industry.



Smart and Silent Fan Control [S²FC]

Intelligent thermal control balances between noise and cooling.



Smart and Silent Fan Control [S³FC]

Advanced three-phase thermal control operate in Fanless, Silent and cooling mode with intelligent design.

Component

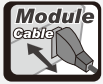


Highly Reliable 105 °C Aluminum Electrolytic Capacitors
A build that integrates high level, Japan-sourced components to extend product life.



Conductive Polymer Aluminum Solid Capacitors
Build with high level Japan or Taiwan sourced components which ensures operation stability at extreme conditions.

Exterior design



Detachable Modular Cables
Flexible cable solution to reduce clutter.



Multi-GPU Technologies Supported
6Pin & 8Pin PCI-E connectors to support all GPU platforms.



Ultra Ventilation [Honeycomb Structure]
Minimizes airflow resistance for maximum cooling.

Product guide

ATX



Dimension: L150 x W140 x H86mm (5.9" x 5.5" x 3.4")

Model	DC outputs					Total Power	Input type
	+3.3V	+5V	12V Combine	-12V	+5Vsb		
SSP-750RT Active PFC	20A	20A	62A	0.3A	2.5A	750W	Full range Fixed 220V
	100W ¹		744W ²	3.6W	12.5W		
SSP-650RT Active PFC	20A	20A	54A	0.3A	2.5A	650W	Full range Fixed 220V
	100W ¹		648W ²	3.6W	12.5W		
SSP-550RT Active PFC	20A	20A	45A	0.3A	2.5A	550W	Full range Fixed 220V
	100W ¹		540W ²	3.6W	12.5W		
SSP-450RT Active PFC	20A	20A	37A	0.3A	2.5A	450W	Full range Fixed 220V
	100W ¹		444W ²	3.6W	12.5W		

Safety : cTUVus, TUV, CB, CCC, BSMI
EMI / EMC : CE, FCC, C-tick



Dimension: L150 x W140 x H86mm (5.9" x 5.5" x 3.4")

Model	DC outputs					Total Power	Input type
	+3.3V	+5V	12V Combine	-12V	+5Vsb		
SSP-350GT Active PFC	12A	16A	29A	0.3A	2.5A	350W	Full range Fixed 220V
	80W ¹		348W ²	3.6W	12.5W		

Safety : cTUVus, TUV, CB, CCC, BSMI
EMI / EMC : CE, FCC, C-tick





Dimension: L150 x W140 x H86mm (5.9" x 5.5" x 3.4")

Model	DC outputs					Total Power	Input type
	+3.3V	+5V	12V Combine	-12V	+5Vsb		
SS-600ET Active PFC	24A	24A	46A	0.8A	2.5A	600W	Full range Fixed 220V
	130W ¹		552W ²	9.6W	12.5W		
SS-500ET Active PFC	24A	24A	34A	0.8A	2.5A	500W	Full range Fixed 220V
	130W ¹		408W ²	9.6W	12.5W		
SS-400ET Active PFC	20A	20A	30A	0.8A	2.5A	400W	Full range Fixed 220V
	130W ¹		360W ²	9.6W	12.5W		
SS-350ET Active PFC	20A	20A	27A	0.8A	2.5A	350W	Full range Fixed 220V
	130W ¹		324W ²	9.6W	12.5W		
SS-300ET Active PFC	18A	20A	24A	0.8A	2.5A	300W	Full range Fixed 220V
	120W ¹		288W ²	9.6W	12.5W		

Safety : CUL, TUV, CB, CCC, BSMI
EMI / EMC : CE, FCC, C-tick



Dimension: L150 x W140 x H86mm (5.9" x 5.5" x 3.4")

Model	DC outputs					Total Power	Input type
	+3.3V	+5V	12V Combine	-12V	+5Vsb		
SS-600ES Active PFC	24A	24A	46A	0.8A	2.5A	600W	Full range Fixed 220V
	130W ¹		552W ²	9.6W	12.5W		
SS-500ES Active PFC	24A	24A	34A	0.8A	2.5A	500W	Full range Fixed 220V
	130W ¹		408W ²	9.6W	12.5W		
SS-400ES Active PFC	20A	20A	30A	0.8A	2.5A	400W	Full range Fixed 220V
	130W ¹		360W ²	9.6W	12.5W		
SS-350ES Active PFC	20A	20A	27A	0.8A	2.5A	350W	Full range Fixed 220V
	130W ¹		324W ²	9.6W	12.5W		
SS-300ES Active PFC	18A	20A	24A	0.8A	2.5A	300W	Full range Fixed 220V
	120W ¹		288W ²	9.6W	12.5W		

Safety : CUL, TUV, CB, CCC, BSMI
EMI / EMC : CE, FCC, C-tick



Dimension: L150 x W140 x H86mm (5.9" x 5.5" x 3.4")

Model	DC outputs					Total Power	Input type
	+3.3V	+5V	12V Combine	-12V	+5Vsb		
SSP-430SE Active PFC	12A	16A	33A	0.3A	2A	430W	Fixed 220V
	82W ¹		396W ²	3.6W	10W		
SSP-350SE Active PFC	12A	16A	27A	0.3A	2A	350W	Full range Fixed 220V
	82W ¹		324W ²	3.6W	10W		
SSP-300SE Active PFC	12A	16A	24A	0.3A	2A	300W	Full range Fixed 220V
	82W ¹		288W ²	3.6W	10W		
SSP-250SE Active PFC	12A	16A	20A	0.3A	2A	250W	Full range Fixed 220V
	82W ¹		240W ²	3.6W	10W		

Safety : UL, TUV, CB, CCC, BSMI
EMI / EMC : CE, FCC, C-tick



Dimension: L150 x W140 x H86mm (5.9" x 5.5" x 3.4")

Model	DC outputs					Total Power	Input type
	+3.3V	+5V	12V Combine	-12V	+5Vsb		
SSP-430ST Active PFC	12A	16A	33A	0.3A	2A	430W	Fixed 220V
	82W ¹		396W ²	3.6W	10W		
SSP-350ST Active PFC	12A	16A	27A	0.3A	2A	350W	Full range Fixed 220V
	82W ¹		324W ²	3.6W	10W		
SSP-300ST Active PFC	12A	16A	24A	0.3A	2A	300W	Full range Fixed 220V
	82W ¹		288W ²	3.6W	10W		
SSP-250ST Active PFC	12A	16A	20A	0.3A	2A	250W	Full range Fixed 220V
	82W ¹		240W ²	3.6W	10W		

Safety : UL, TUV, CB, CCC, BSMI
EMI / EMC : CE, FCC, C-tick



Remark: 1. Combined +3.3V & +5V maximum power 2. +12V maximum power

specification may change without prior notice

TFX



Dimension: L175 x W85 x H65mm (6.9" x 3.3" x 2.6")

Model	DC outputs					Total Power	Input type
	+3.3V	+5V	12V Combine	-12V	+5Vsb		
SS-350TGW Active PFC	12A	16A	29A	0.3A	2A	350W	Full range
	80W ¹		348W ²	3.6W	10W		
SS-350TGM Active PFC	12A	16A	29A	0.3A	2A	350W	Full range
	80W ¹		348W ²	3.6W	10W		
SS-300TGW Active PFC	10A	14A	25A	0.3A	2A	300W	Full range
	70W ¹		300W ²	3.6W	10W		
SS-300TGM Active PFC	10A	14A	25A	0.3A	2A	300W	Full range
	70W ¹		300W ²	3.6W	10W		
SS-250TGW Active PFC	10A	12A	20.83A	0.3A	2A	250W	Full range
	60W ¹		250W ²	3.6W	10W		

SS-250TGW / SS-350TGW / SS-300TGW: Standard Cabling.

Safety : CUL, TUV, CB

EMI / EMC : CE, FCC, C-tick



Dimension: L140 x W85 x H65mm (5.5" x 3.3" x 2.6")

Model	DC outputs					Total Power	Input type
	+3.3V	+5V	12V Combine	-12V	+5Vsb		
SSP-300TGS Active PFC	10A	14A	25A	0.3A	2A	300W	Full range
	70W ¹		300W ²	3.6W	10W		

Safety : CUL, TUV, CB, CCC, BSMI

EMI / EMC : CE, FCC, RCM



Dimension: L175 x W85 x H70mm (6.9" x 3.3" x 2.8")

Model	DC outputs					Total Power	Input type
	+3.3V	+5V	12V Combine	-12V	+5Vsb		
SS-300TFX Active PFC	20A	20A	21A	0.8A	2A	300W	Full range Fixed 220V
	110W ¹		252W ²	9.6W	10W		
SS-250TFX Active PFC	13A	16A	20A	0.8A	2A	250W	Full range Fixed 220V
	80W ¹		240W ²	9.6W	10W		

Safety : CUL, TUV, CB, CCC* (for SS-300TFX only)

EMI / EMC : CE, FCC, C-tick



SFX



Dimension: L100 x W125 x H63.5mm (3.9" x 4.9" x 2.5")

Model	DC outputs					Total Power	Input type
	+3.3V	+5V	12V Combine	-12V	+5Vsb		
SSP-300SFG Active PFC	10A	14A	25A	0.3A	2A	300W	Full range
	70W ¹		300W ²	3.6W	10W		

Safety : CUL, TUV, CB, CCC, BSMI

EMI / EMC : CE, FCC, RCM



Industrial 1U

80 PLUS GOLD

Intel Haswell Processor READY



Dimension: L235 x W100 x H40mm (9.3" x 3.9" x 1.6")

Model	DC outputs					Total Power	Input type
	+3.3V	+5V	12V Combine	-12V	+5Vsb		
SS-500L1U Active PFC	20A	20A	40A	0.3A	2.5A	500W	Full range
	100W ¹		480W ²	3.6W	12.5W		
SS-400L1U Active PFC	20A	20A	32A	0.3A	2.5A	400W	Full range
	100W ¹		384W ²	3.6W	12.5W		

Safety : CUL, TUV, CB, BSMI
EMI / EMC : CE, FCC, C-tick



80 PLUS



Dimension: L235 x W100 x H40mm (9.3" x 3.9" x 1.6")

Model	DC outputs					Total Power	Input type
	+3.3V	+5V	12V Combine	-12V	+5Vsb		
SS-460H1U Active PFC	20A	21A	34A	0.8A	3A	460W	Full range
	130W ¹		408W ²	9.6W	15W		
SS-400H1U Active PFC	20A	21A	29A	0.8A	3A	400W	Full range
	130W ¹		348W ²	9.6W	15W		

Safety : CUL, TUV, CB, CCC, BSMI
EMI / EMC : CE, FCC, C-tick



Industrial 2U

80 PLUS GOLD

Intel Haswell Processor READY



Dimension: L245 x W100 x H70mm (9.6" x 3.9" x 2.7")

Model	DC outputs					Total Power	Input type
	+3.3V	+5V	12V Combine	-12V	+5Vsb		
SS-500L2U Active PFC	20A	20A	40A	0.3A	2.5A	500W	Full range
	100W ¹		480W ²	3.6W	12.5W		
SS-400L2U Active PFC	20A	20A	32A	0.3A	2.5A	400W	Full range
	100W ¹		384W ²	3.6W	12.5W		

Safety : CUL, TUV, CB, BSMI
EMI / EMC : CE, FCC, C-tick



80 PLUS



Dimension: L270 x W100 x H70mm (10.6" x 3.9" x 2.7")

Model	DC outputs					Total Power	Input type
	+3.3V	+5V	12V Combine	-12V	+5Vsb		
SS-600H2U Active PFC	20A	25A	45A	0.8A	3A	600W	Full range
	150W ¹		540W ²	9.6W	15W		

Safety : CUL, TUV, CB, CCC
EMI / EMC : CE, FCC



Industrial 2U

80 PLUS



Dimension: L225 x W100 x H70mm (8.9" x 3.9" x 2.7")

Model	DC outputs					Total Power	Input type
	+3.3V	+5V	12V Combine	-12V	+5Vsb		
SS-520H2U Active PFC	20A	21A	37A	0.8A	3A	520W	Full range
	130W ¹		444W ²	9.6W	15W		
SS-460H2U Active PFC	20A	21A	32A	0.8A	3A	460W	Full range
	130W ¹		384W ²	9.6W	15W		
SS-400H2U Active PFC	20A	21A	29A	0.8A	3A	400W	Full range
	130W ¹		348W ²	9.6W	15W		

Safety : CUL, TUV, CB, CCC, BSMI
EMI / EMC : CE, FCC, C-tick



Mini 1U

80 PLUS GOLD



Dimension: L150 x W81.5 x H45.6mm (5.9" x 3.2" x 1.6")

Model	DC outputs					Total Power	Input type
	+3.3V	+5V	12V Combine	-12V	+5Vsb		
SS-300SUG Active PFC	10A	14A	25A	0.3A	2A	300W	Full range
	100W ¹		300W ²	3.6W	10W		
SS-250SUG Active PFC	10A	14A	20A	0.3A	2A	250W	Full range
	70W ¹		200W ²	3.6W	10W		

Safety : CUL, TUV, CB, CCC, BSMI
EMI / EMC : CE, FCC, RCM



80 PLUS GOLD



Dimension: L190 x W81.5 x H40.6mm (7.5" x 3.2" x 1.6")

Model	DC outputs					Total Power	Input type
	+3.3V	+5V	12V Combine	-12V	+5Vsb		
SS-350M1U Active PFC	12A	16A	29A	0.3A	2A	350W	Full range
	80W ¹		348W ²	3.6W	10W		
SS-300M1U Active PFC	10A	14A	25A	0.3A	2A	300W	Full range
	70W ¹		300W ²	3.6W	10W		

Safety : CUL, TUV, CB
EMI / EMC : CE, FCC, C-tick



80 PLUS BRONZE



80 PLUS



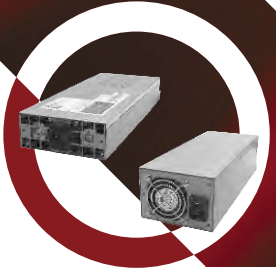
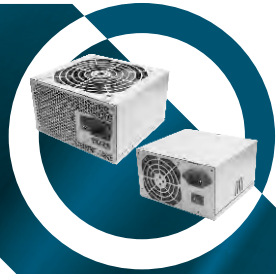
Dimension: L150 x W81.5 x H40.6mm (5.9" x 3.2" x 1.6")

Model	DC outputs					Total Power	Input type
	+3.3V	+5V	12V Combine	-12V	+5Vsb		
SS-250SU Active PFC (80PLUS Bronze)	14A	17A	18A	0.8A	2A	250W	Full range
	110W ¹		216W ²	9.6W	10W		
SS-200SU Active PFC (80PLUS)	14A	17A	14A	0.8A	2A	200W	Full range
	110W ¹		168W ²	9.6W	10W		

Safety : CUL, TUV, CB, CCC, BSMI
EMI / EMC : CE, FCC, C-tick



PC Personal Computer



Industrial 1U / 2U

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ISO 14001



REGISTERED FIRM