REVOLUTION87+ Power Supply Series

Your satisfaction, Our priority.

REVOLUTION87+

80 PLUS GOLD

5 YEARS WARRANTY

real ErP Lot 6 ready

industrial-grade 105°C Japanese Electrolytic Capacitor



550W / 650W



750W / 850W



1000W

FEATURES

87PLUS ready!
Extreme efficiency PSU series with 87-93% efficiency @ 20-100% load. Certified to meet 80 PLUS® GOLD requirements.

ErP Lot 6 ready!
Help system to meet ErP Lot 6 2010 (<1W at standby mode) with high efficiency +5Vsb circuitry.*
* Required for ErP Lot 6 2010 compliant systems.

Dynamic Hybrid Transformer Topology
Technological breakthrough topology using a staged dynamic transformer array for extremely high efficiency with the most durable and stable output at any load.

C6 & Hybrid ready!
Maximum compatibility with C6 & hybrid states of current and future CPU & GPU generations by ZERO LOAD Design (no minimum load).

Twister fan inside!
13.9cm Twister-bearing fan with low noise and long lifetime. (100,000 hours MTBF, Patented)

100% 105°C Japanese electrolytic capacitors
Highest components standards for maximum durability and stability.

Future ready!
12P modular design for possibly upcoming new CPU and GPU 10P and/or 12P connectors.

DXXI ready!
100% 6+2P (8P) PCI-E connector to support new generation DXXI graphic cards.

24/7 @ 50°C ready!
Non-Stop industrial class performance at 50°C ambient.

GAMING ready!
ATX12V v2.3 support for latest Intel® Core™ 2 Duo/Quad/Extreme/i7/i5, and AMD® Athlon™ 64X2 & Phenom™ II and SLI® or CrossFireX™.

SERVER ready!
SSI PSDG support for latest Intel Core™ Extreme/i7/i5/i3, Xeon™ and AMD Opteron™ and SLI or CrossFireX™ and downward compatible with EPS12V v2.92, v2.8. (850W/1000W)

Stability ready!
DC to DC converter design lowers energy loss for higher efficiency and better dynamic response and cross regulation.

World ready!
100-240VAC in with automatic adjustment and active PFC for global usage.

SpeedGuard
Advanced fuzzy logic fan speed control for optimal cooling and minimum noise. (Patented)

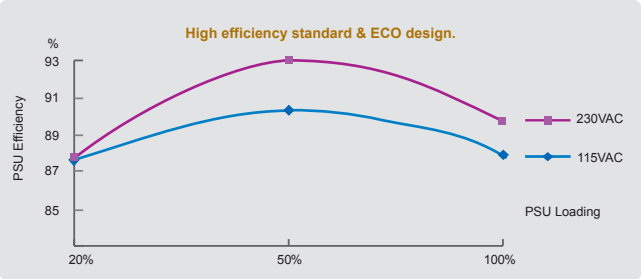
HeatGuard
Keeping PSU fan running for 30-60 seconds after shutdown to dissipate the remaining system heat and prolonging system lifetime.

SafeGuard
Industry-leading multiple protection circuitry of OCP, OVP, UVP, OPP, OTP, SCP & SIP.

CordGuard
Fixing the AC cord tightly to avoid accidental shutdowns of your PC.

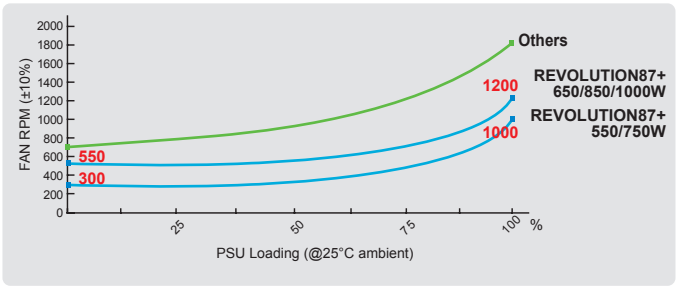
87PLUS ready! (Max. 93% @ 230VAC)

High efficiency performance certified to meet 80 PLUS® GOLD requirements.



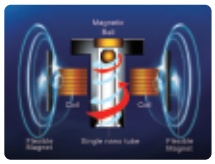
SpeedGuard

Advanced fuzzy logic fan speed control for optimal cooling and minimum noise. (Patented)

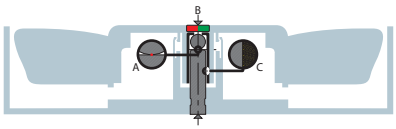


Twister bearing fan inside!

World's leading industrial fan.



Lower noise:1-2db(A) decrease
Longer life:100,000 hours MTBF

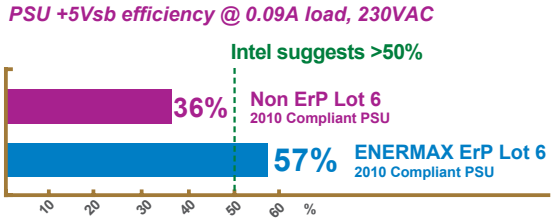


A. Minimal contact area
For effective noise reduction
B. Rotor with integrated magnet
For frictionless and smooth motion
C. Self-lubricating bearing material
Abrasion protection for longer lifetime

ErP Lot 6 2010 ready!

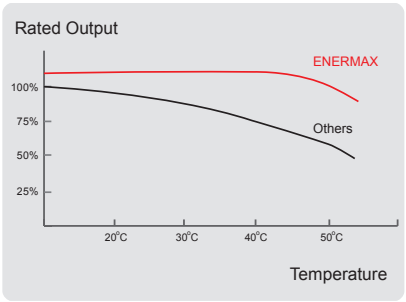
Advanced +5Vsb circuitry with up to 20% improved efficiency in comparison with generic designs helps your system meet ErP Lot 6 2010 (AC < 1W at standby) requirement.

*With ErP Lot 6 enabled motherboard.



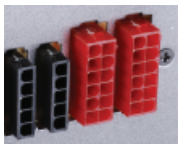
24/7 @ 50°C ready!

Non-stop industrial-class performance at 50°C ambient.



Future ready!

12P socket design for possibly upcoming 10P & 12P connector generations.



8P		today,
10P		tomorrow,
12P		and beyond.

C6 & Hybrid mode ready!

REVOLUTION87 provides tight DC regulation to support C6 mode and Hybrid graphic power saving mode thanks to its ZERO LOAD (0W) Design.



1-130W
C6 state CPU

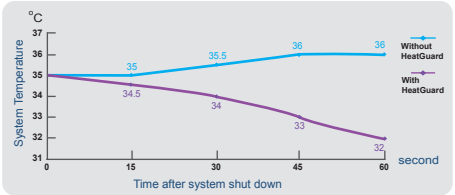


1-300W
Hybrid mode GPU

With 1W power consumption (C6 state / hybrid mode), most PSUs would have difficulties to maintain stable voltage output, and might shut-down for protection, otherwise their unstable voltage could damage system components!

HeatGuard

Keeping PSU fan running for 30-60 seconds after shutdown to dissipate the remaining system heat and prolonging system lifetime.



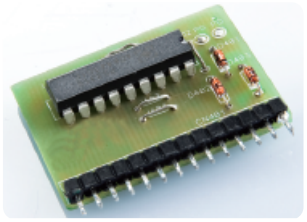
CordGuard

Fixing the AC cord tightly to avoid accidental shutdowns of your PC.



SafeGuard

Industry-leading multiple protection circuitry of OCP, OVP, UVP, OPP, OTP, SCP & SIP.



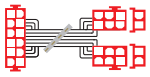
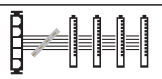
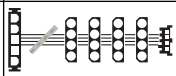
ENERMAX

SPECIFICATIONS

SPEC \ MODEL		ERV550AWT-G		ERV650AWT-G		ERV750AWT-G		ERV850EWT-G		ERV1000EWT-G	
AC Input	Input voltage	100-240VAC 50-60 Hz								115-240VAC 50-60Hz	
	Input current	7.5 – 3A		8.5 – 3.5A		9 – 4.5A		11 – 5A		11 – 5A	
DC Output	3.3V	24A	120W	24A	120W	24A	120W	24A	120W	24A	120W
	5V	24A		24A		24A		24A		24A	
	12V1	25A	540W (45A)	25A	648W (54A)	25A	744W (62A)	30A	840W (70A)	30A	996W (83A)
	12V2	25A		25A		25A		30A		30A	
	12V3	25A		25A		25A		30A		30A	
	12V4	-	-	-	-	25A		30A		30A	
	-12V	0.5A	6W	0.5A	6W	0.5A	6W	0.5A	6W	0.5A	6W
	+5Vsb	3A	15W	3A	15W	3A	15W	3A	15W	3A	15W
Total power		550W		650W		750W		850W		1000W	
* Peak power		605W		715W		825W		935W		1100W	

*Peak power may last up to 60 seconds.

CABLES & CONNECTORS

	Cables \ Models		ERV550AWT-G	ERV650AWT-G	ERV750AWT-G	ERV850EWT-G	ERV1000EWT-G
Native Cables	24P MB		1 x 55cm	1 x 55cm	1 x 55cm	1 x 55cm	1 x 55cm
	+12V CPU		1 x 60cm 4+4(8P)x1	1 x 60cm 4+4(8P)x1	1 x 60cm 8Px1 & 4+4(8P)x1	1 x 60cm 8Px1 & 4+4(8P)x1	1 x 60cm 8Px1 & 4+4(8P)x1
	6+2P (8P) PCI-E 2.0		-	-	-	2 x 45cm	2 x 45cm
Modular Cables	EMC014-G 2x PCI-E 2.0 6+2 Pin		1 x 50cm	2 x 50cm	2 x 50cm	2 x 50cm	2 x 50cm
	EMC019-G 4x SATA		1 x 45/60/75/90cm	1 x 45/60/75/90cm	2 x 45/60/75/90cm	2 x 45/60/75/90cm	2 x 45/60/75/90cm
	EMC020-G 4x 4 Pin Molex + FDD		1 x 45/60/75/90/105cm	1 x 45/60/75/90/105cm	1 x 45/60/75/90/105cm	1 x 45/60/75/90/105cm	1 x 45/60/75/90/105cm
	EMC021-G 2x SATA + 2x 4 Pin Molex		1 x 45/60/75/90cm	2 x 45/60/75/90cm	2 x 45/60/75/90cm	2 x 45/60/75/90cm	2 x 45/60/75/90cm



550W / 650W
150(W)x86(H)x160(D) mm



750W / 850W
150(W)x86(H)x175(D) mm



1000W
150(W)x86(H)x175(D) mm

E134014 R43028 АЯ46 Z385 N4251 Tested To Comply With FCC Standards FOR HOME OR OFFICE USE

© 2011 ENERMAX Technology Corporation. All rights reserved. Specifications are subject to change without prior notice. Actual products and accessories may differ from illustrations. Omissions and printing errors excepted. Content of delivery might differ in different countries or areas. Some trademarks may be claimed as the property of others.
80 PLUS is a brand and program run by Ecos Consulting. The 80 PLUS logos are the trademarks of Ecos Consulting. All rights reserved.
©2009 Advanced Micro Devices, Inc., ATI, the ATI logo, CrossfireX, and Radeon are trademarks of Advanced Micro Devices, Inc.

OCT 2011