

REVOLUTION87+ Power Supply Series

Your satisfaction, Our priority.

REVOLUTION87+



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™.

SEVER 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.

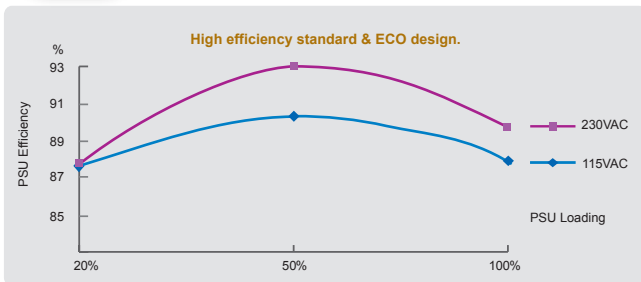
CordGuard

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

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

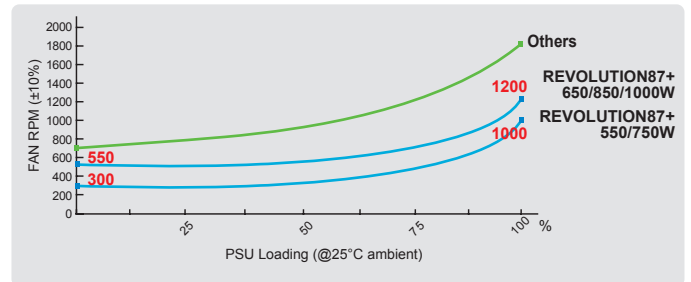


High efficiency performance certified to meet 80 PLUS® GOLD requirements.



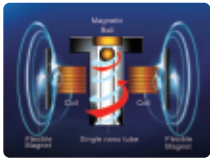
SpeedGuard

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

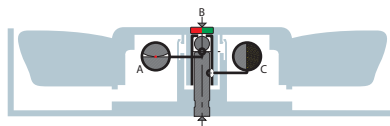


Twister bearing fan inside!

World's leading industrial fan.



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



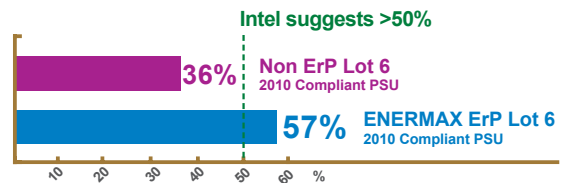
- A. Minimal contact area
For effective noise reduction
- B. Rotor with integrated magnet
For frictionless and smooth motion
- C. Self-lubricating bearing material
Abrasion protection for longer lifetime

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.

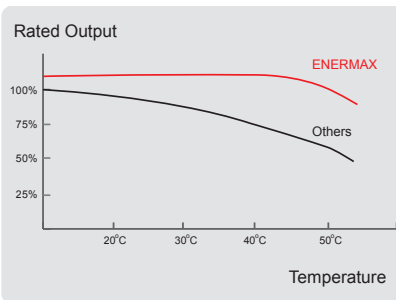
*With ErP Lot 6 enabled motherboard.

PSU +5Vsb efficiency @ 0.09A load, 230VAC



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

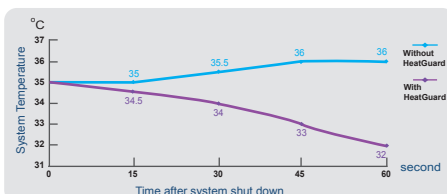


1-300W
Hybrid mode GPU

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.



SPECIFICATIONS



| MODEL | | ERV550AWT-G | ERV650AWT-G | ERV750AWT-G | ERV850EWT-G | ERV1000EWT-G | | | | | |
|--------------|---------------|---------------------|-------------|-------------|-------------|--------------|--------------------|------|------------|------|-----|
| SPEC | 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 | | |
| | 5V | 24A | | 24A | | 24A | | 24A | | | |
| | 12V1 | 25A | 540W (45A) | 25A | 744W (62A) | 30A | 840W (70A) | 30A | 996W (83A) | | |
| | 12V2 | 25A | | 25A | | 30A | | 30A | | | |
| | 12V3 | 25A | | 25A | | 30A | | 30A | | | |
| | 12V4 | - | - | - | - | 25A | 30A | 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



| 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



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