ENERMAX
POWER. INNOVATION. DESIGN.

Power Supply Series

550/650/700 Watt

TRIATHLOR FC

80 PLUS BRONZE

Features

80 PLUS® Bronze
84 to 88 percent efficiency at 230V and 20 to 100 percent load. 80 PLUS® Bronze certified.

ErP Lot 6 2013 ready!
Help systems to meet the latest EU eco-design directive ErP Lot 6 2013 (< 0.5W in standby mode) due to an improved, high-efficient 5V standby (+5Vsb) circuitry. Only in combination with an ErP Lot 6 2013 ready mainboard

DC-to-DC Design
The secondary voltages (+5V and +3.3V) are generated by the primary voltage rails (+12V). Positive effect: Higher efficiency, clean output voltages (low ripple & noise) and a perfect voltage regulation at all loads.

Future ready and flexible
All-round modular cable management. 10/12P sockets for possible connector changes of upcoming high-performance CPU and graphics card generations.

Full GPU & CPU Power
Massive 12V rails to power high-performance processors and graphics cards. More than 98 percent of the total power of the PSU can be delivered by the key rails only.

Multi-Rail Design
Safe power supply thanks to two rock stable 12V rails, each with separated over current protection (OCP).

Zero Load Design
Stable voltage output even at 0W load. In this way, Triathlor supports the energy-saving functions of modern CPU and graphics cards (C6 State/Hybrid Mode) and prevents compatibility issues.

T.B.Silence inside!
Smooth running 12cm T.B.Silence fan with patented Twister bearing (100,000 hours MTBF) and powerful Batwing blades for very effective and silent cooling.

SpeedGuard
Ultra silent and powerful cooling performance due to the advanced and intelligent fuzzy logic fan speed control with min. 500 or 900 RPM between 0 and 50 percent load.

AirGuard
Patented air-intake with optimal aero-dynamical design reduces noisy air turbulences.

SafeGuard
Leading Enermax protection circuitry of OCP, OVP, UVP DC, OPP, OTP, SCP & SIP.

Features

Full Gaming Power
Min. two 6+2P (8P) PCI-E connectors to power latest high-end graphics cards and multi-GPU systems (CrossfireX™ & SLI™).

High-quality Japanese Capacitors
Highest Enermax quality standards for leading stability and maximum durability. 105°C Japanese electrolytic capacitors without exception.

Intel ATX12V v2.3
Compliant with latest desktop power supply design guide. Full support of most current Intel® and AMD® CPU.

ENERGY STAR 5.0 ready!
Supports computer systems to meet ENERGY STAR 5.0 standard.

Worldwide Compatibility
100-240V AC input with automatic adjustment and up to 99% active Power Factor Correction (PFC) for global usage.

Compact, Scratch-resistant Housing
Dimensions: 150 mm x 86 mm x 140 mm (W x H x D)

3 Years Vendor Warranty

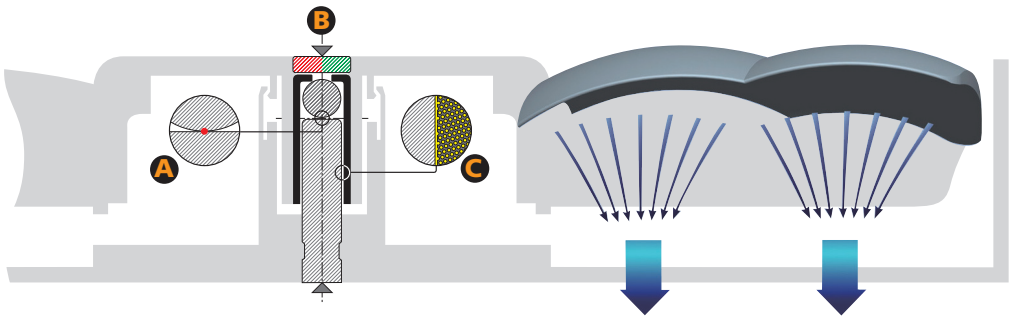
T.B.Silence inside!

TWISTER

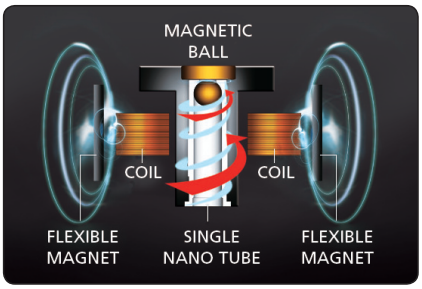
A Minimal contact area
For an effective noise reduction

B Rotor with integrated magnet
For a frictionless and smooth motion

C Self-lubricating bearing sleeve
Abrasion protection for a longer lifetime



Twister Bearing Technology (patented)
Persistent low noise level and longer lifetime (up to 100,000 hours MTBF)



Batwing Blades
More airflow and silent operation

Specifications

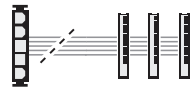
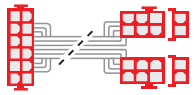
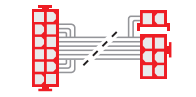
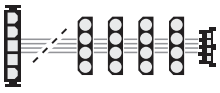
	ETA 550AWT-M		ETA 650AWT-M		ETA 700AWT-M	
AC Input Rating						
Input Voltage	100-240VAC, 50-60Hz, active PFC (max. range 90-265 VAC)					
Input Current	7.5-3A		8.3–3.2A		9–3.5A	
DC Output Rating						
+3.3V	24A	120W	24A	140W	24A	140W
+5V	24A		24A		24A	
+12V1	25A	540W (45A)	30A	648W (54A)	30A	696W (58A)
+12V2	25A		30A		30A	
-12V	0.5A	6W	0.5A	6W	0.5A	6W
+5Vsb	2.5A	12.5W	2.5A	12.5W	2.5A	12.5W
Total Power	**550W**		**650W**		**700W**	
Peak Power	**600W***		**715W***		**770W***	

* Peak power may last up to 60 seconds.

Cables and Connectors

Connectors		ETA 550AWT-M	ETA 650AWT-M	ETA 700AWT-M
EPS12V 20+4 Pin		**1x** 55cm	**1x** 55cm	**1x** 55cm
CPU 4+4 Pin		**1x** 60cm	**1x** 60cm	**1x** 60cm
PCI-E 2.0 6+2P (8P)		**3x**	**4x**	**4x**
SATA		**6x**	**9x**	**9x**
4P Molex		**5x**	**5x**	**5x**
FDD		**1x**	**1x**	**1x**

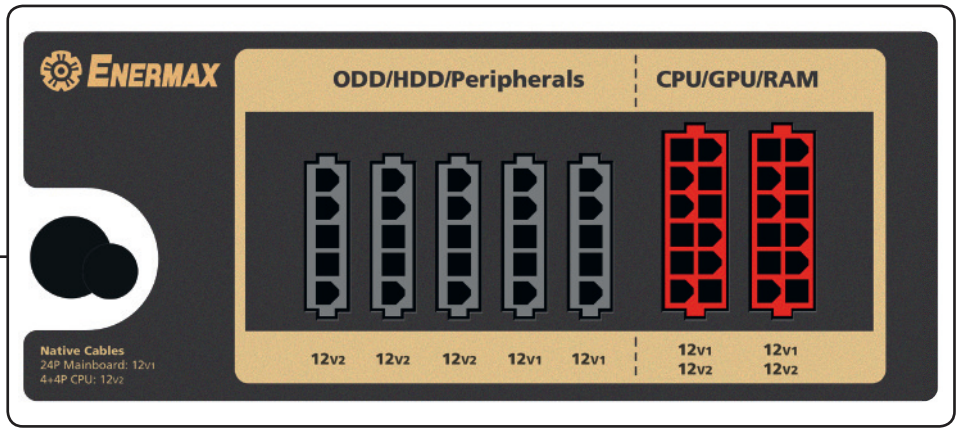
Cables and Connectors

Modular cables		ETA 550AWT-M	ETA 650AWT-M	ETA 700AWT-M
EMC 3x SATA + 1x 4 Pin-Molex		**1x** 45 / 55 / 65 / 75cm	**1x** 45 / 55 / 65 / 75cm	**1x** 45 / 55 / 65 / 75cm
EMC011 3x SATA		**1x** 45 / 55 / 65cm	**2x** 45 / 55 / 65cm	**2x** 45 / 55 / 65cm
EMC014 2x PCI-E 2.0 6+2 Pin		**1x** 50cm	**2x** 50cm	**2x** 50cm
EMC015 1x PCI-E 2.0 6+2 Pin		**1x** 50cm	-	-
EMC020-G 4x 4 Pin Molex + FDD		**1x** 45 / 60 / 75 / 90 / 105cm	**1x** 45 / 60 / 75 / 90 / 105cm	**1x** 45 / 60 / 75 / 90 / 105cm

12 Volt distribution

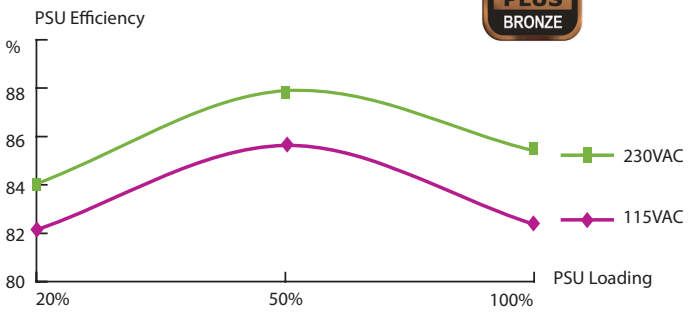
Multi-Rail Design

Safe power supply thanks to two rock stable 12V rails, each with separated over current protection (OCP).



82 PLUS ready!

80 PLUS BRONZE



Stability ready!

DC-to-DC Design
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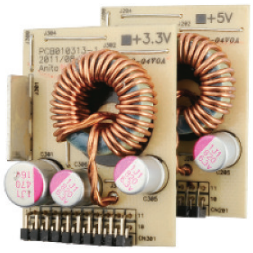
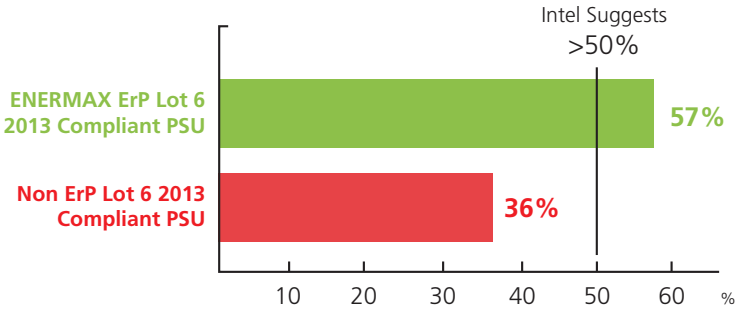
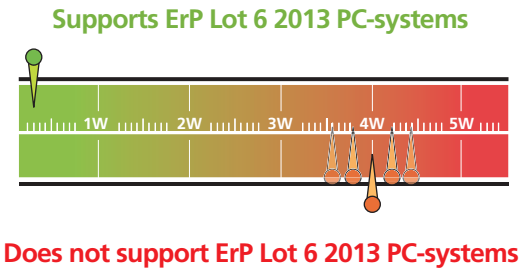


ErP Lot 6 2013 ready!

ErP Lot 6 (ErP = Energy-related Products, previously EuP = Energy-using Products) is part of the EU eco-design directive and amongst others defines the maximum power consumption of PC systems in standby mode. Following this regulation, a PC system must not consume more than 1W (from 2013 on < 0.5W). The decisive components to fulfil the ErP Lot 6 targets are the mainboard and the PSU. Enermax relies on a new circuit design, which improves the efficiency of the 5V standby rail (+5Vsb) about 20 per cent.





Certifications & Standards