



**GAMATRONIC**

*Our Power, Your Confidence*

**MEGA POWER+**  
Simply Ingenious!

## **GAMATRONIC'S POWER+ MODULAR UPS SYSTEM & THE NEW MEGA POWER+ MODULAR UPS SYSTEM- EXTRA HIGH POWER CAPACITY, EXTRA HIGH POWER CONFIDENCE!**

Gamatronic's market research and analysis reveals that the market is hungry for extra-high-capacity modular UPS solutions. True to our goal of delivering cutting edge and innovative technological power solutions, Gamatronic has developed the **Mega Power+ 25-250 kVA**, to meet the market's needs

### **THE POWER+ MODULAR UPS SYSTEM**

With the demanding power needs of today's computer and telecom networks, UPS performance requirements have become more stringent. High conversion efficiency, small footprint and small total volume, light weight and reliability are more important now than ever, and all predictions support their increasing importance over time.

#### ***POWER+ history***

In 2003 Gamatronic introduced the first **POWER+ Modular UPS System**. **POWER+**'s innovative design sparked a worldwide revolution in the UPS market. This was prompted both by the concept and by the **POWER+**'s combination of best-of-breed technology and components.

The goal was to build the greatest possible power capacity into the smallest possible modular design, to create the modular UPS with the greatest power density. A rigorous research and development effort succeeded in producing an extra-efficient conversion topology.

However efficient a UPS may be, a certain amount of the input power is inevitably lost, mostly as heat, which is dispersed into the atmosphere via heatsinks and fans. The more efficient the UPS's power circuit, the less waste heat will be generated, permitting a reduction in the size of the heatsinks and fans.

#### ***POWER+ and MEGA POWER+ modular systems today***

Increasing efficiency is the most critical UPS issue today because it generates savings for the customer in his electrical bills, both in terms of the power required by the UPS to supply the load devices, and the power required for air conditioning to keep the UPS room cool. Improved UPS efficiency also increases the service life of the unit by lowering the operating temperature of the power elements.

Following extensive research Gamatronic has adopted the three-level PWM inverter topology, attaining high ac-ac efficiencies of 95% and more. This enables us to produce small power modules weighing only 9 kg that deliver a high-quality 10 kVA of power, or slightly larger modules that still weigh only 20 kg but delivering 25 kVA. The power modules are hot-plugged into a detachable shelf bearing detachable cables.

Fans speed is dynamically determined by an algorithm that considers both temperature and load. This results in longer fan life, less dust entering the system, and reduced audible noise.



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The remarkable worldwide success of the **POWER+** system in a market starved for higher power inspired the solution of paralleling two and more modular systems.

Some of the most popular features of the **POWER+** system were carried over to the new **MEGA POWER+**, and other new fascinating features have been added to the new system. The system controller is now a complete PC with a 7" TFT LCD color monitor and dedicated software developed especially for the new system.

The physical appearance of the **MEGA POWER+** is also outstanding, as is appropriate for such an innovative system.

Key features of the new system include: 25 to 250 kVA/kW power, single-phase or three-phase configurable, N+X modules redundancy, input unity power factor, green harmonics-free power consumption, true on-line double-conversion design (as per IEC62040-3).

#### **GAMATRONIC ANTICIPATES CHANGING MARKET NEEDS:**

We are living in an era of an unprecedented technological race to the future, and Gamatronic has made it its mission to provide cutting-edge power infrastructure to ensure that the market's changing needs and demands are met:

- **MEETING EXTRA-HIGH CAPACITY NEEDS - RIGHT FOR IT AND DATA CENTERS:**  
Gamatronic's **MEGA POWER+** provides extra-high power capacity, something more and more important for today's power needs, especially in IT and datacenter environments.
- **MEETING MODULARITY DEMAND - RIGHT FOR GROWING BUSINESSES:**  
As awareness of the benefits of modularity grows, demand for modular technology in UPS solutions is increasing greatly. As a pioneer of UPS modular technology, Gamatronic's release of the **POWER+** and **MEGA POWER+** demonstrates Gamatronic's reputation as a leader of innovation in its industry.
- **MEETING HIGH-EFFICIENCY AWARENESS:**  
The **POWER+** and **MEGA POWER+** both provide a proven 96% ac-ac efficiency at full load!
- **MEETING ENVIRONMENTAL STANDARDS:**  
As a brand with high environmental awareness, Gamatronic ensures that its products provide green and clean power: THDi<5%; P.F>0.99 .  
**POWER+** and **MEGA POWER+** provide a UPS-to-generator power ratio of only 1.2 !
- **EXTRA-HIGH POWER DENSITY**  
**POWER+** has an astounding power density of 1100 VA/kg, 8.5 VA/inch<sup>3</sup>  
**MEGA POWER+** is even more impressive, at 1168 VA/kg, 10.7 VA/inch<sup>3</sup>

***For maximum power control and efficiency – Go GAMATRONIC !***