

MEGA POWER+

Simply Ingenious!

**Modular UPS System
25kVA/kW to 250kVA/kW**

- True Modular Capabilities
- Delivers 25-250KVA/KW
- The Highest Power Density & the Smallest Footprint
- Maximum Availability and Minimal Downtime



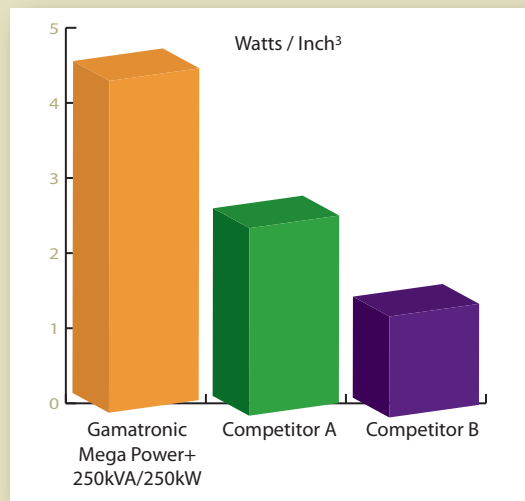
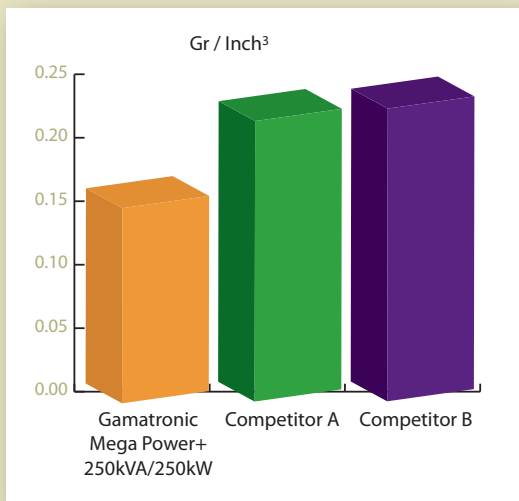
GAMATRONIC™

Our Power Your Confidence

Gamatronic brings a new paradigm to the field of uninterruptible power supplies with the Mega Power+ UPS. This truly modular UPS 250KVA/250KW delivers maximum power with the smallest footprint available on the market.

The Highest Power Density / Smallest Footprint

Gamatronic's studies have shown that the issue of space requirements in today's world is critical. Mega Power+ delivers extremely high power density = 5kW/ inch³. Mega Power + modules are each 25KVA/KW 3U and saves space in data centers, IT rooms and other critical hosted sites.



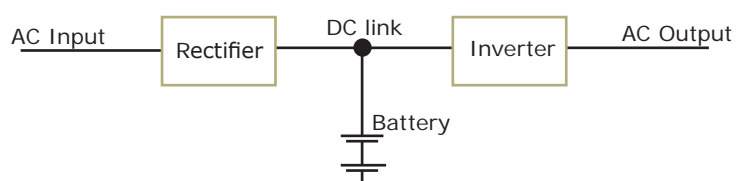
Unique Design and Engineering

Mega Power+ offers an “all-contained” original and proprietary design, where all connections and cables are internal. Minimal access to the sides and rear of the unit is required – FRONT access only. Mega Power+ unique mechanical design provides 250KW capacity modular UPS in one rack. This represents a new standard, above all other available solutions on the market.

Mega Power+ Double Conversion True On-Line Battery (VFI)

According to IEC 62040-3

Complying with international standards such as the IEC-62040-3, and the highest classification VFI-SS-111, the Mega Power+ features galvanic battery connection between the rectifier output and the inverter input on a common DC link.



Mega Power+ is a True Parallel Redundant UPS

True N+1 redundancy of 25KW modules provides several critical advantages, including:

Highest level of load availability: Even if a module fails for some reason, it will not influence the UPS system operation and load availability. The system will continue to work unhindered.

Flexible scalability: Mega Power+ ensures future growth with load increase with a wide power capacity range: from 25 to 250KVA/KW. This scalability feature enables the user/designer unprecedented flexibility to correctly size the UPS for today, next month, next year (There is no need to supply spare UPS capacity in advance; only what the user/designer currently needs.)

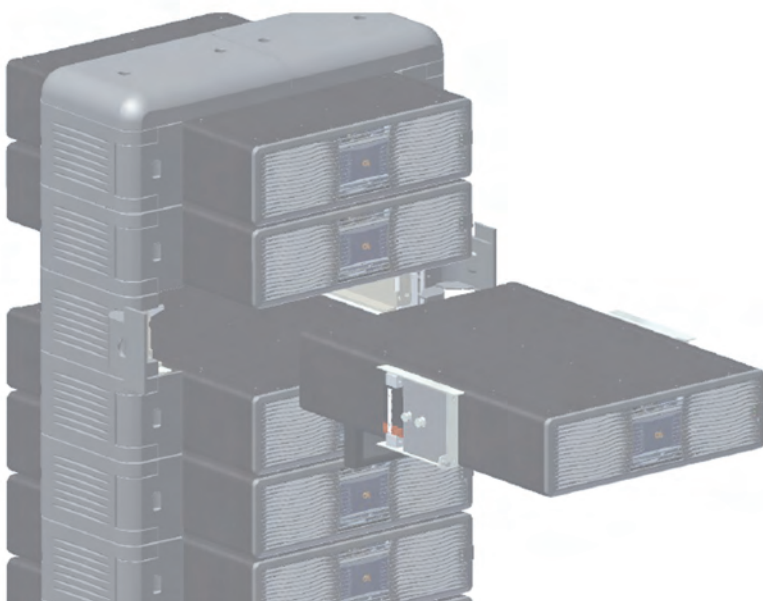
Minimal maintenance: Mega Power+ delivers almost zero MTTR (Mean Time To Repair), which results in the best service with minimal costs.

Minimal Maintenance / Minimal Down Time

Mega Power+ offers a truly modular configuration with minimized losses of the load. Each 25 KVA/KW module is entirely self-contained and ready for hot-swapping – without requiring complex and expensive stocks of components, subsystems, and spare parts. At any time, without shutting the entire unit down, any module can simply be hot-swapped with another. This enables Mega Power+ to service critical applications and data centers that cannot afford any downtime.

Unity Output Power factor

Mega Power+ performs unity output PF $250\text{kVA} = 250\text{kW}$. The UPS is perfectly suitable for capacitive loads, such as blade servers with lower power factor.



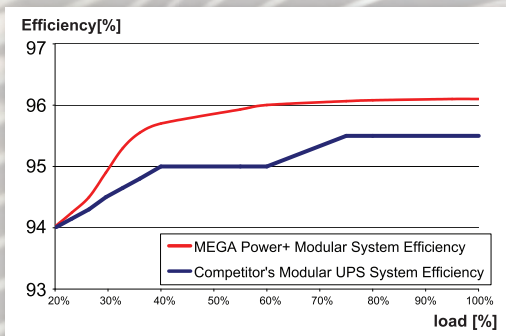
Single UPS 25 kW Module Specifications

	Topology	On line Battery, Double Conversion, VFI									
	Construction	Modular parallel hot-swapped modules									
	Operation	Continuous									
INPUT	Voltage	3X400 V +N									
	Voltage range	-20 % and +15 %									
	Current	3x42 A per module - no inrush current at startup									
	Frequency	47 ÷ 63 Hz									
	Power walk-in	< 60 s									
	Power factor	0.99									
	THDI	5 %									
OUTPUT	Rated power	25 kVA/25 kW to 250 kVA/250 kW									
	Frequency (in free-running mode)	50/60 Hz ±0.1 %									
	Frequency tracking range	±1 Hz, ±2 Hz, ±3 Hz (selectable)									
	Slew rate	1 Hz/sec									
	Voltage	3x400 V +N									
	Static regulation	±1 %									
	Regulation for unbalanced load	±1 % for 100 % unbalanced load									
	Dynamic response to 100% load step	±2 %									
	Overload	110 %: 10 minutes, 125 %: 60 seconds, 1000 %: 1 cycle									
	Waveform	Sinusoidal									
	THD	Less than 2 % for linear load									
	Load CF (max)	6:1									
	Ac-Ac efficiency (nominal)	Up to 96 % at full load									
	Dc-Ac efficiency (nominal)	Up to 98 % at full load									
BATTERIES	Dc-link voltage	±340 V to ±432 V									
	Quantity	64x12 V									
	Type	Sealed, lead acid, rechargeable									
DISPLAY		TFT LCD color monitor 7" with touch screen									
GENERAL	Maximum power dissipation (Po=25kW)	N*1315 W (N*4487 BTU/hr)									
	Ambient temperature	-10 °C to +40 °C (operating); -20 °C to +60 °C (storage)									
	Relative humidity	95 % max non-condensing									
	Altitude	1500 m without derating									
	Enclosure	IP20									
	Cooling system	Multi-fan with speed control (forced)									
STANDARDS	EMC	EN50091-2 Class A; IEC 62040-2 Class A									
	Design	EN50091-3; IEC 62040-3									
	Safety	EN50091-1; IEC 62040-1-1									
	Low magnetic field radiation	EMF as per ICNIRP									
DIMENSIONS	UPS type (kW)	25	50	75	100	125	150	175	200	225	250
	Height (cm)	197									
	Width (cm)	67									
	Depth (cm)	63									
	Weight (Kg)	152	184	216	248	280	312	344	376	408	440
ACOUSTIC NOISE	Noise (dBA) with half load	48	52	53	54	55	55.8	56.4	57	57.5	58
	Noise (dBA) with full load	51	54	55	57	58	58.8	59.4	60	60.5	61

Mega Power+ Green Power is our Priority

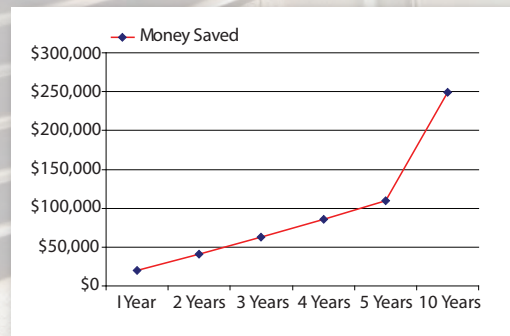
Gamatronic understands that energy-savings is not only a matter of cost-savings, but also of social responsibility. Mega Power+'s clean and globally responsible energy technology meets and exceeds power requirements, while minimizing environmental impact.

Mega Power+ High Efficiency UPS



Mega Power+ delivers the highest efficiency rate. At an efficiency rate of 96%, Mega Power+ provides significant energy and cooling savings.

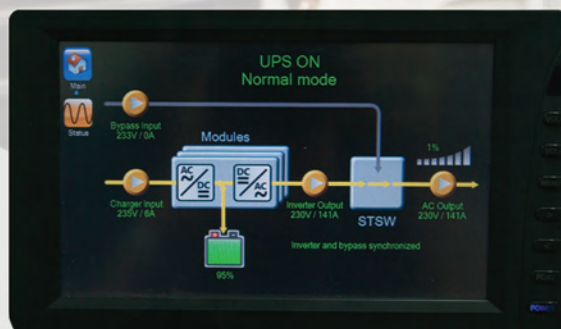
Mega ROI (Return On Investment)



Calculations based on USA electricity cost
Mega Pay back time = 1.5 Years

Mega Power+ User-Friendly Controller

Each Mega Power+ features a unique and proprietary Controller, which is the user's main interface with the Mega Power+. The Controller features a colored, touch-sensitive screen which enables the user to navigate through the system screens by pressing various icons. Multilanguage functions allow simple usage worldwide. The Controller is not a failure point and UPS operation is not interrupted if the Controller is removed. Its interface offers up-to-the-minute, intelligent monitoring of all UPS parameters including intelligent battery monitoring functionality, system voltage, temperature etc. Each system element has its own Control and History Log. Built in SNMP/TCIP & optional GPSR/SMS interface provides complete control over unit's operation without installing software or using dedicated computers or control hardware.





Mega Power+ has been granted a United States Design Patent. Design Patent No. US D606,018 S.



Mega Power+ has been recorded in the Register of Community Designs and registered with the OHIM - Office for Harmonization in the Internal Market.

Mega Power+ Applications

Modular and advanced, Mega Power+ solutions are an excellent choice for:

• **Local Area Networks** • **Servers** • **Data Centers** • **Point of Sale Applications** • **Telecom Facilities** • **Medical Equipment** • **Industrial PLCs**

Visit our website at: www.gamatronic.com

Gamatronic Electronic Industries Ltd.

Headquarters and Factory
14 Hartom St. POB 45029,
Jerusalem 91450, Israel
Tel: +972-2-5888222
Fax: +972-2-5828875
e-mail: info@gamatronic.co.il

Tel-Aviv Sales Office
34 Habarzel St.
Ramat Hachayal,
Tel Aviv, Israel
Tel: +972-3-6499940
Fax: +972-3-6449791

Gamatronic UK Ltd.
15 Chester Road, Colmworth Business Park, Eaton
Socon, Cambridgeshire, PE19 8YT, United Kingdom
Tel: +44 (0)1480 479889/ 472665 Fax: +44(0)1480 407865
e-mail: sales@gamatronic.co.uk
www.gamatronic.co.uk

Feb. 2010

Products characteristics and features may change from time to time without notice. This document may contain printing flaws or errors. Use products only in accordance with instructions. No warranty or any liability is assumed in relation to the information contained herein.