

# MEGA V2

MEGA V2  
GAMATRONIC

Modular  
UPS System  
125-500kVA/kW  
Enhanced User  
Experience

UPS ON  
Normal mode



Our Power Your Confidence

# MEGA V<sub>2</sub>



## The new state of the art MegaV<sub>2</sub> backup system

The new state of the art MegaV<sub>2</sub> backup system offers an enhanced user experience dedicated to improved serviceability & connectivity.

This innovative state of the art scalable, redundant UPS system focuses on elevating the users' experience to new heights.

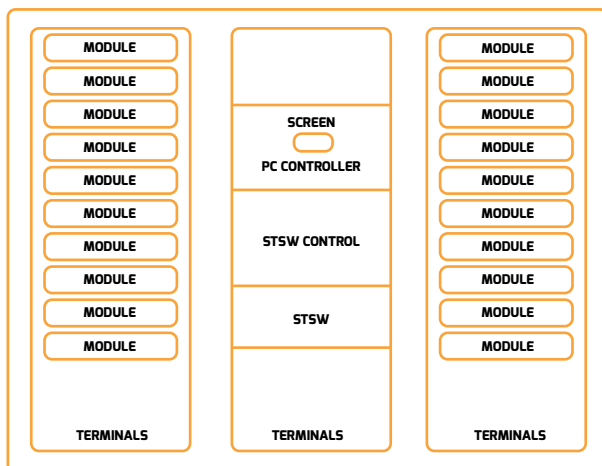
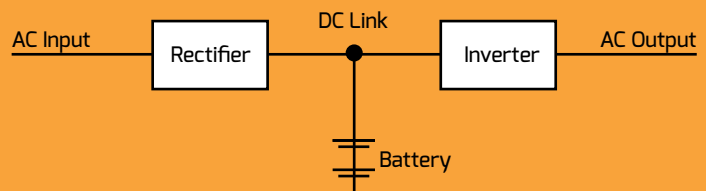
With the highest efficiency rate of 96% and a significantly smaller footprint, the product offers a leading solution in the range of up to 500 kW/kVA.

MegaV<sub>2</sub> delivers the requested power requirements to perfectly fit different data center configuration architectures, while offering modularity essential to modern cost effective data center management.

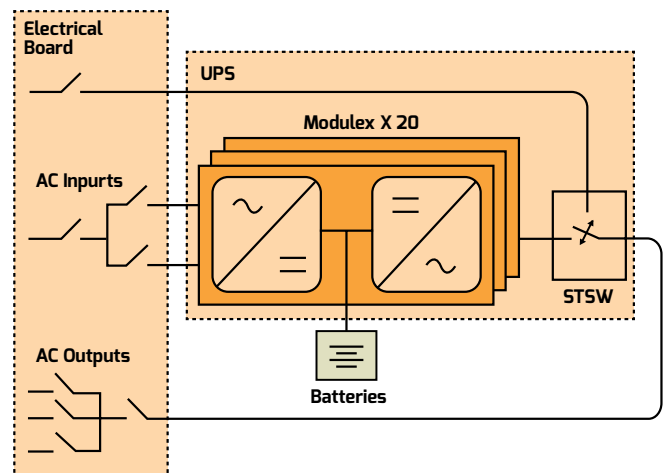
## MegaV<sub>2</sub> Double Conversion True On-Line Battery (VFI)

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 a galvanic battery connected between the rectifier output and the inverter input on a common DC link.



Functional Front View (500 kVA)



Block diagram scheme

# MEGA V<sub>2</sub> Modular UPS Systems

Topology	True on-line, double conversion, VFI									
Construction	Modular, parallel hot-swapped modules									
<b>INPUT</b>										
Voltage	3 X 400 Vac + N									
Voltage range	-20 % and +15 %									
Current	3x42 A per module - no inrush current at startup									
Frequency	47±63 Hz									
Power walk-in	>60 sec									
Power factor	0.99									
THDI	<5 %									
<b>OUTPUT</b>										
Rated power	25 kVA / 25 kW to 500 kVA / 500kW									
Frequency (in free-running mode)	50/60 Hz ±0.1 %									
Frequency tracking range	±0.5 Hz, ±1 Hz, ±2 Hz, ±3 Hz (selectable)									
Slew rate	1 Hz / sec									
Voltage	3x400 Vac + 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	<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									
<b>BATTERIES</b>										
DC-link voltage	±320 Vdc to ±405 Vdc									
Quantity per set	60 x 12 V									
Type	Sealed, lead acid, rechargeable									
<b>DISPLAY</b>										
	TFT LCD 7" color monitor with touch screen									
<b>GENERAL</b>										
Maximum power dissipation (Po=25kW)	N*1041 W (N*3552 BTU)									
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	Forced air (multi-fan with speed control)									
<b>STANDARDS</b>										
Safety	IEC 62040-1									
EMC	IEC 62040-2									
Design	IEC 62040-3									
Low freq. magnetic field radiation	EMF as per ICNIRP									
<b>SYSTEM WEIGHT AND DIMENSIONS</b>										
<b>Mega V<sub>2</sub> 125</b>										
System dimensions (mm)	1270 (H) x 670 (W) x 655 (D)									
<b>UPS capacity (kW)</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>					
UPS weight (kg)	147	180	213	246	279					
<b>Mega V<sub>2</sub> 250</b>										
System dimensions (mm)	1970 (H) x 670 (W) x 655 (D)									
<b>UPS capacity (kW)</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>175</b>	<b>200</b>	<b>225</b>	<b>250</b>
UPS weight (kg)	190	223	256	289	322	355	388	421	454	487
<b>Mega V<sub>2</sub> 500</b>										
System dimensions (mm)	1970 (H) x 2200 (W) x 655 (D)									
<b>UPS capacity (kW)</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>175</b>	<b>200</b>	<b>225</b>	<b>250</b>			
UPS weight (kg)	630	665	700	735	770	805	840			
<b>UPS capacity (kW)</b>	<b>350</b>	<b>375</b>	<b>400</b>	<b>425</b>	<b>450</b>	<b>475</b>	<b>500</b>			
UPS weight (kg)	980	1015	1050	1085	1120	1155	1190			
<b>MODULE WEIGHT AND DIMENSIONS</b>										
Weight	33 kg									
Capacity	25 kVA / 25 kW									
Height	135 mm									
Width (not including connectors)	455 mm									
Width (including connectors)	535 mm									
Depth	655 mm									

\*All specifications are subject to change without prior notice



MEGA V2 has been recorded in the Register of Community Designs and registered with the OHIM - Office for Harmonization in the Internal Market.



MEGA V2 has been granted a United States Design Patent. Design Patent No. US D606,018 S.



MEGA V2 has been granted a Design Patent of the State Intellectual Property Office of the People's Republic of China; Design Patent No. ZL 200930006412.6



## New System Characteristics

### Enhanced Power Modules

Provide improved tier 2 serviceability with quick & convenient local maintenance. The new V2 module provides same MTTR to users while allowing for the local partners a substantial savings by independently and domestically handling service calls.

### Substantial Decrease in Module Weight

The new mechanical design of the V2 module is 2.5 kg lighter.

### Differentiating DC power

With a decrease from 64 to 60 sets of batteries as default factory standard complementing the system.

### State of the Art Controller Offering:

- Log download to users' PC as either an excel or html format allows for an improved online serviceability.
- Additional language Selection, easily downloadable, suited for the varied needs of our global customers.
- Real time e mail notification directly from the controller, and sent to a number of up to 10 recipients.
- Professional Server Shutdown: facilitating a monitored shutdown according to predefined settings and battery status.
- Frequency Converter Feature the UPS system can be utilized to convert the frequency of the mains power supply from 50 Hz to 60 Hz and Vice Versa.



## GAMATRONIC ELECTRONIC INDUSTRIES LTD.

### Headquarters and Factory

17 Hartom St. POB 45029, Jerusalem 91450, Israel  
Tel: +972-2-5888222 Fax: +972-2-5828875  
e-mail: info@gamatronic.co.il  
[www.gamatronic.com](http://www.gamatronic.com)

### 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: info@gamatronic.net