



GAMATRONIC™

Our Power Your Confidence



INTRODUCING THE

CENTRIC 480

MODULAR UPS

**An innovative, scalable
and transformerless
system**





Introducing the **CENTRIC 480 Modular UPS** **3x480 Vac**

Gamatronic is proud to present our next stage in modular UPS systems - the **CENTRIC 480** UPS, for 3x480 Vac power applications. The **CENTRIC 480** provides power protection and power backup for loads up to 120 or 240 kW with parallel option.*

MODULAR: **CENTRIC 480** is a modular, double-conversion, parallel redundant UPS, composed of one to eight UPS modules, a system controller and a static switch module.

SCALABLE: **CENTRIC 480** is designed to grow as your power requirements increase. Its output capacity is easily scalable on-site by adding hot plug in 30 kW modules.

FOOTPRINT: The **CENTRIC 480's** footprint is less than 6 ½ sq. ft. (less than 0.6 m²).

Choose the **Centric 480** and increase your UPS capacity dramatically with minimal floor space.



* The 240 kW model and parallel configuration to be launched.



Standard Features:

GENERAL:

- Online double-conversion architecture.
- User-friendly interface.
- Ac-ac efficiency up to 96.1 %.
- High power output, small footprint.
- Transformerless design.
- Compatible with 3-wire and 4-wire infrastructure.

30 kVA/kW POWER MODULE

- Modular design provides easy scalability and service.
- A module can be replaced in minutes, without interruption to the load (hot swap).

STATE OF THE ART CONTROLLER

- 7" color touch screen.
- Fast and intuitive navigation to data display and configuration screens.
- Continuous monitoring by the controller of all the UPS components.
- Large system log with copious details of system state.
- System log can be exported through Ethernet or USB connections.
- Control of on/off state of each module.
- Sophisticated battery test.
- Continuous dynamic estimation of remaining backup time in battery mode.
- Timed automatic shutdown of computer servers in battery mode.
- Email notification to predefined lists.



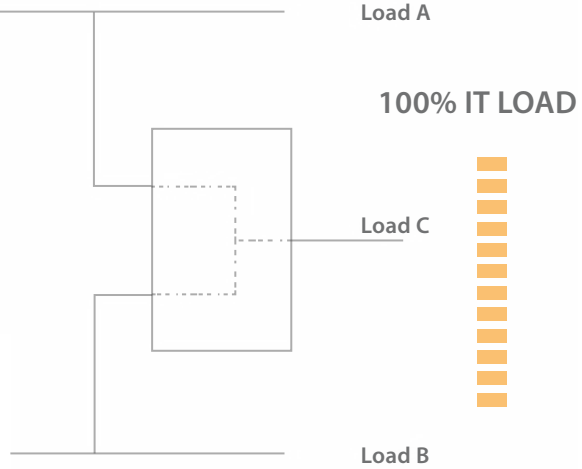
Centric Efficiency

The Centric 480 is an extremely efficient UPS system, achieving high efficiency versus load

50% LOAD **CENTRIC** 240kW



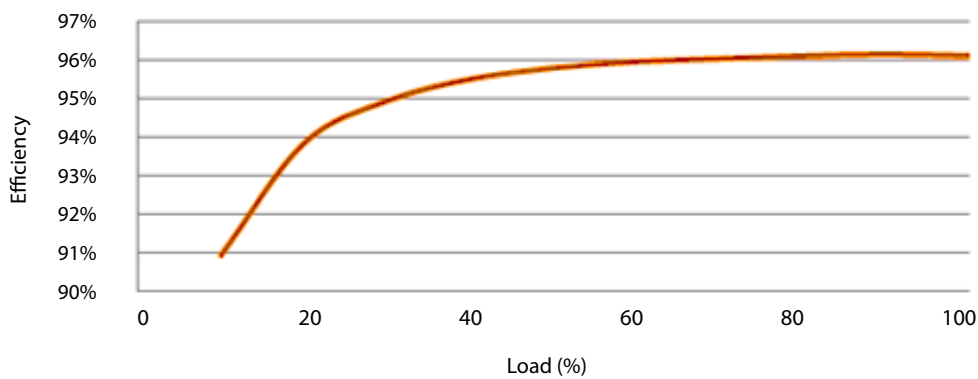
2N Application



50% LOAD **CENTRIC** 240kW



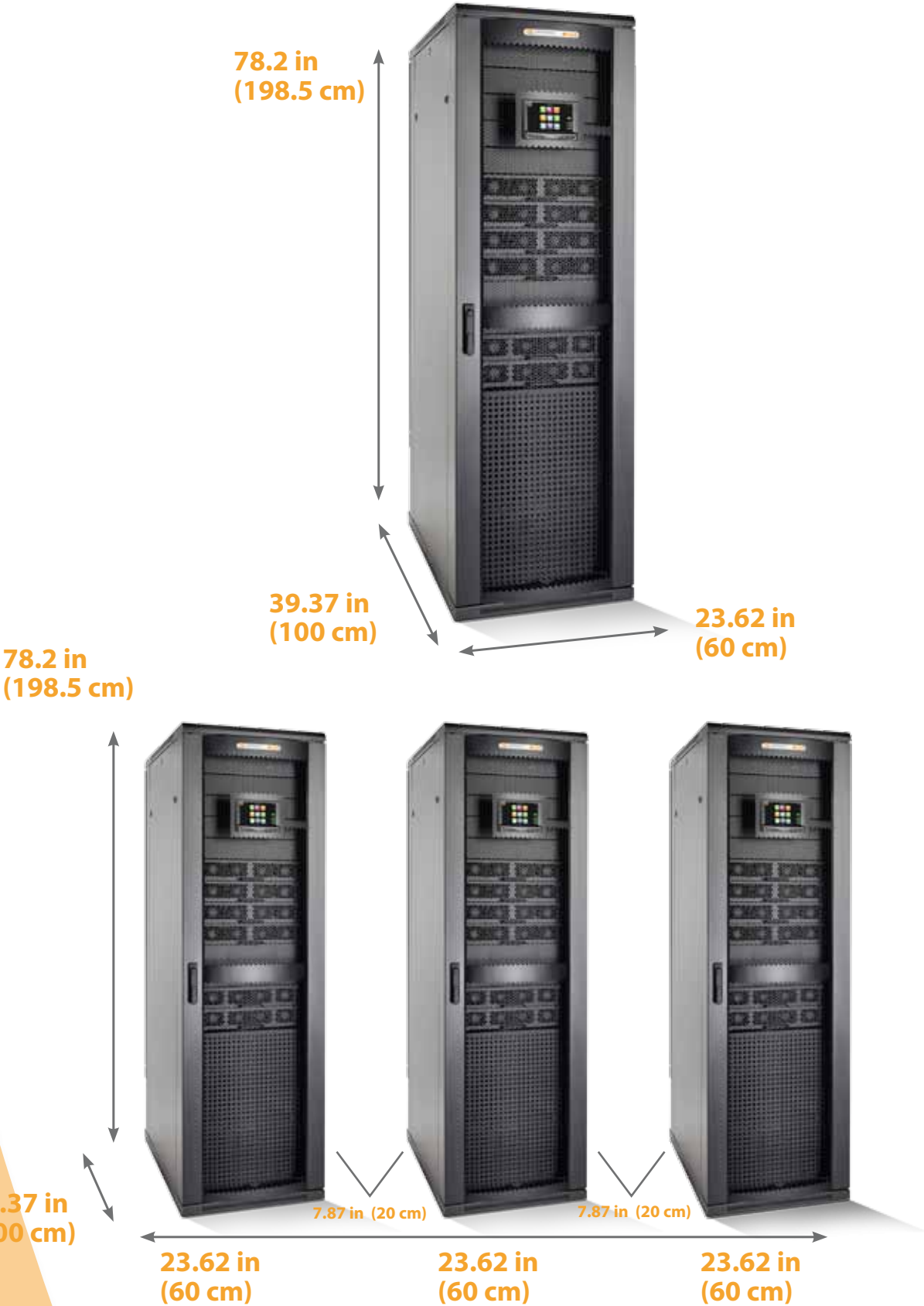
Efficiency vs. Load





Power Density

	120 kW model		240 kW model	
Power footprint:	129W/in ²	20W/cm ²	258.1W/in ²	40W/cm ²
Power density:	1.65W/in ³	0.1008W/cm ³	3.30W/in ³	0.2015W/cm ³



Gamatronic – Israel's Leading Power Electronics Company

True to the exceptional reputation earned by Israeli high-tech industries in the world – Gamatronic has been leading the power electronic industry for more than 4 decades. After establishing its presence throughout the world, in 2008 Gamatronic entered the North American market releasing the Power+ line of UL-certified modular UPS systems.

High standards and strong emphasis on R&D together with technological innovation and comprehensive product understanding are the reasons why the most power demanding industries such as health care, IT, defense, telecom and many more continue to choose Gamatronic technology.

All products are tested on our industrial floors in Jerusalem, allowing full quality control at all times, and are manufactured in accordance with UL 1778 certification.

Due to the growing needs of the market Gamatronic has now launched the Centric 480 Vac product with a uniquely small footprint.

Gamatronic intends to continue to grow, to excel and to strengthen its brand – becoming an even more familiar and sought after name.

We ask for your lasting support as we advance into the future.



CENTRIC 480

system specifications

Topology	Modular, double-conversion, VFI							
Operation	Continuous							
Input								
Voltage (Vac)	3x480 Vac, 4 wires + Gnd or 3 wires + Gnd							
Voltage range (%)	+10 / -15							
Current (A)	3x38 per module – no inrush current at startup							
Rectifier frequency (Hz)	40 ~ 70							
Power factor correction	>0.99							
THDI (%)	<3							
Inrush current	None							
Output								
Rated power (kVA / kW)	120 / 120, 240 / 240*							
Nominal frequency (Hz)	50/60							
Frequency tracking range (Hz)	±(0.5, 1, 2, 3, 4) selectable							
Frequency tracking slew rate (Hz/sec)	1							
Frequency in free-running mode (Hz)	50/60, ±0.1 %							
Nominal voltage (Vac)	3x480 Vac, 4 wires + Gnd or 3 wires + Gnd							
Static voltage regulation (%)	±1							
Regulation for unbalanced load (%)	±1 for 100 % unbalanced load							
Dynamic response to 100 % load step (%)	±2							
Overload withstand	Inverter mode	110 % : 10 min, 125 % : 60 s, 150 % : 30 s						
	Bypass mode	125 % : 10 min, 1000 % : 1 cycle						
Waveform	Sinusoidal							
THD (%)	Linear load: <2; non-linear load: <6							
Load CF (max)	6:1							
Ac-ac efficiency, nominal	Up to 96							
Batteries								
Nominal voltage (Vdc)	480 (240 pole-to-midpoint)							
Charging voltage (Vdc)	540 (270 pole-to-midpoint)							
Quantity	2 x 20 x 12 Vdc							
Type	Sealed, lead acid, rechargeable, maintenance-free							
General								
Maximum power dissipation (W, Po=30 kW)	N*1217W (N*4153 BTU/h), where N = # modules							
Ambient temperature	(°C)	-10 ~ +40 (operating), -20 ~ +60 (storage)						
	(°F)	+14 ~ +104 (operating), -4 ~ +140 (storage)						
Relative humidity (%)	95, maximum, non-condensing							
Altitude (m)	1500 without derating							
Enclosure	IP20							
Cooling system	Multi-fan with speed control (forced)							
Design & manufacturing standards								
Safety	UL 1778 (4 th edition), IEC 62040-1							
EMC	FCC part 15/B, IEC 62040-2							
Design classification	IEC 62040-3							
Low magnetic field radiation	EMF as per ICNIRP							
Dimensions								
# of power modules	1	2	3	4	5	6	7	8
Power output (kW)	30	60	90	120	150	180	210	240
Weight (kg)	206.1	224.8	264.5	283.2	322.9	341.6	381.3	400
Height (mm / inches)	2015 / 79.4							
Width (mm / inches)	600 / 23.6							
Depth (mm / inches)	1000 / 39.5							

* All specifications are subject to change without advance notice.

* 240 kW option to be launched shortly.

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