



CENTRIC

A new modular UPS
from 25 to 200 kW/kVA



GAMATRONIC™

Our Power Your Confidence



A new family of modular UPSs with flexible power capacity - from 25 to 200 kW/kVA

Gamatronic is proud to present the Centric, an innovative, modular UPS system available in three cabinet sizes (50, 100, 200 kW) and your choice of any of eight power capacities: 25, 50, 75, 100, 125, 150, 175, 200 kW.

At the heart of the Centric are 25 kW UPS modules. The number of modules in a system is user-determined. If your power requirements increase, UPS modules can be added as desired, up to 50, 100, or 200 kW, depending on cabinet size. The same module fits all cabinet sizes.

The Centric's modularity makes N+1 (and greater) redundancy possible, increasing reliability. Modules can be added, replaced, or removed with no tools required other than a screwdriver.



The Centric's double-conversion topology provides high quality power regulation and ac-ac efficiency of up to 96 %. The Centric's battery is true on-line as per the IEC 62040 international standard, guaranteeing instant availability of backup power in the event of mains failure.

Again according to IEC 62040, the Centric is classified as VFI-SS-111. This means:

- the Centric's output voltage and frequency are not dependant on the input,
- the Centric's steady-state output waveform is sinusoidal whether the Centric is operating in normal mode or battery mode, and
- the Centric's dynamic output performance is suitable for sensitive critical loads.

The Centric is a transformerless system, with a dramatically low electromagnetic radiation profile. The transformerless design means this new UPS is more environmentally friendly, too. Less metal is used in the Centric's manufacture, making it lighter than other UPS systems of comparable power and reducing cost to the end-user.

Standard features

- Advanced, colorful LCD touch screen.
- User-friendly software interface.
- True on-line battery.
- Up to 96 % efficiency.
- High power output and small footprint.
- Light weight.

Additional features are available:

- Manual maintenance bypass switch.
- Email notification of system alarms.
- Modbus / RS232 / RS485 communication protocols.
- Automatic, orderly shutdown of connected computers during a power blackout.
- For greater power needs, up to four Centric units can be operated together in a parallel configuration.

CENTRIC: UPS SYSTEM SPECIFICATIONS										
Topology			Modular, double-conversion, VFI, on-line battery							
Operation			Continuous							
Input										
Voltage			3x400 Vac +N (-20 % / +15 %)							
Voltage range			360 – 460 Vac: full power; 320 – 360 Vac: derated 20 %							
Current			3 × 42 A per module – no inrush current at startup							
Frequency			47 – 63 Hz							
Power walk-in			>60 s							
Power factor correction			>0.99							
THDI			<3 %							
Output										
Rated Power			25 kVA / kW to 200 kVA / kW							
Nominal frequency			50/60 Hz							
Frequency tracking range			±(0.5, 1, 2, 3, 4) Hz, selectable							
Frequency tracking slew rate			1 Hz/sec							
Frequency (in free-running mode)			50/60 Hz ±0.1 %							
Nominal voltage			3x400 Vac (230 Vac)							
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										
Dc-link voltage			300 to 405 Vdc (405 V floating, accuracy to ±1 %)							
Quantity			60 × 12 Vdc							
Type			Sealed, lead acid, rechargeable							
General										
Maximum power dissipation (Po=25 kW)			N*1041 W (N*3552 BTU/h), where N = # modules							
Ambient temperature			-10 to +40 °C (operating), -20 to +60 °C (storage)							
Relative humidity			95 % maximum, non-condensing							
Altitude			1500 m without derating							
Enclosure			IP20							
Cooling system			Multi-fan with speed control (forced)							
Design & manufacturing standards										
Safety			IEC 62040-1							
EMC			IEC 62040-2							
Design classification			IEC 62040-3							
Low magnetic field radiation			EMF as per ICNIRP							
Dimensions										
UPS model	50 kW		100 kW			200 kW				
# of power modules	1	2	2	3	4	4	5	6	7	8
Power output (kW/kVA)	25	50	50	75	100	100	125	150	175	200
Height (mm) (w/o wheels)	665		932			1200				
Width (mm)	540		540			540				
Depth (mm)	757		757			757				
Weight (kg) w/o batt. box	72.2	92.0	102.4	122.2	142	149.3	169.1	188.9	208.7	228.5

All specifications are subject to change without notice.



CENTRIC: TECHNICAL SPECIFICATIONS FOR THE SYSTEM CONTROLLER	
Display	LCD flat panel, touch-sensitive
Other indicators	Audible alarm
Analog input channels	4 input dry contacts (N.O. / N.C.)
Real-time clock (RTC)	Yes, with backup
Power meter	kVA, kW, PF
Volt-free outputs (dry contacts)	6 outputs, rated 48 V / 1 A
Output dry contacts	Ac failure Dc failure UPS module(s) failure Load on bypass Battery test failure Over/under temperature Overload (Each system alarm type can be routed to the dry contact of your choice.)
Communication ports	Serial, Ethernet, USB
Communication protocols	RS232, RS485, TCP/IP, SNMP, Modbus
Communications with system modules	Serial, isolated
Events log	500 events
System operation without controller	Unchanged
On-screen parameters	Load bar-graph 3-phase voltages 3-phase currents Battery voltage Status of each UPS module Static-switch parameters and status Battery sensor temperature
RTC operation without power	Indefinitely
Power requirements	3 × 400 Vac and 405 Vdc
Remote indication panel capability	Yes

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

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