



Centric

A New UPS
Models from
50 to 200 kW/kVA



GAMATRONIC™

Our Power Your Confidence



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Gamatronic is proud to present the Centric, an innovative UPS system available in seven models (50, 75, 100, 125, 150, 175, 200 kW/kVA).

The Centric provides reliable, clean, regulated ac power at an attractive price.

For users with greater power requirements, the Centric can be operated in up to four units in parallel.



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 IEC 62040, guaranteeing instant availability of backup power in the event of a mains failure.

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.

The Centric provides high power relative to its floor space. With a footprint of 480 x 630 mm (18.9 x 25.8 in.) the 200 kVA model has a power density greater than 66 W/cm² (61 kW/ft²).

The Centric's user interface is an attractive, easy-to-use, colorful LCD touch screen.

Standard Features

- Advanced colorful LCD touch screen.
- True on-line battery.
- Up to 96% efficiency.
- High power output & 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.

CENTRIC: UPS SYSTEM SPECIFICATIONS

Topology	On-line battery, double-conversion, VFI							
Operation	Continuous							
INPUT								
Voltage	3×400 Vac+ N (+10 % / -15 %)							
Voltage range	340 – 440 V: full power, 323 – 340 V: derated 20 %							
Current	3 × 42 A per module – no inrush current at startup							
Frequency	47 – 63 Hz							
Power walk-in	> 60 s							
Power factor	> 0.99							
THDI	< 3 %							
OUTPUT								
Rated Power	50 kVA / kW to 200 kVA / kW							
Nominal frequency	50/60 Hz							
Frequency tracking range	±(0.5, 1, 2, 3) 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 minutes, 125 % : 60 s,						
	Bypass mode	125 % : 10 minutes, 1000 % : 1 cycle						
Waveform	Sinusoidal							
THD	Linear load: <2 %; non-linear load: <8 %							
Load CF (max)	6:1							
Ac-Ac efficiency (nominal)	Up to 96 % at full load							
BATTERIES (see also Battery pack specifications)								
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)							
STANDARDS								
Safety	IEC 62040-1							
EMC	IEC 62040-2							
Design	IEC 62040-3							
Low magnetic field radiation	EMF as per ICNIRP							
DIMENSIONS								
UPS model	100 kVA/kW			200 kVA/kW				
# of power modules	2	3	4	4	5	6	7	8
Power output (kW/kVA)	50	75	100	100	125	150	175	200
Height (mm) (w/o wheels)	931			1450 max.				
Width (mm)	540							
Depth (mm)	731.5							
Weight (kg)	98.6	117.2	135.7	144.3	162.9	181.4	200	218.5

* All specifications are subject to change without advance 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

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