

Manufactured by:



# Centric

A New UPS Models from 50 to 200 kW/kVA



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/cm<sup>2</sup> (61 kW/ft<sup>2</sup>).

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

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Systems, Inc.

## CENTRIC: UPS SYSTEM SPECIFICATIONS

Topology	On-line battery, double-conversion, VFI							
Operation	Continuous							
<b>INPUT</b>								
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%							
<b>OUTPUT</b>								
Rated Power	50 kVA / kW to 200 kVA / kW							
Nominal frequency	60 Hz							
Frequency tracking range	±(0.5, 1, 2, 3) Hz, selectable							
Frequency tracking slew rate	1 Hz/sec							
Frequency (in free-running mode)	60 Hz ±0.1%							
Nominal voltage	3×400 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							
<b>BATTERIES (see also Battery pack specifications)</b>								
DC-link voltage	300 to 405 Vdc (405 V floating, accuracy to ±1 %)							
Quantity	60 × 12 Vdc							
Type	Sealed, lead acid, rechargeable							
<b>GENERAL</b>								
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)							
<b>STANDARDS</b>								
Safety	IEC 62040-1							
EMC	IEC 62040-2							
Design	IEC 62040-3							
Low magnetic field radiation	EMF as per ICNIRP							
<b>DIMENSIONS</b>								
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
Other indicators	Audible alarm
Analog input channels	4 input dry contacts (N.O. / N.C.)
<b>Real-time clock (RTC)</b>	<b>Yes, with backup</b>
	kVA, kW, PF
	6 outputs, rated 48 V / 1 A
	AC failure
	DC failure
<b>Output dry contacts</b>	<b>UPS module(s) failure</b>
	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
<b>System operation without controller</b>	<b>Unchanged</b>
	Load bar-graph
	3-phase voltages
<b>On-screen parameters</b>	<b>3-phase currents</b>
	Battery voltage Status of each UPS module
	Static-switch parameters and status
	Battery sensor temperature
<b>RTC operation without power</b>	<b>Indefinitely</b>
Power requirements	3 × 400 Vac and 405 Vdc
Remote indication panel capability	Yes

\* All specifications are subject to change without advance notice.



### CENTRIC

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

# “Quality and Efficiency that you can count on.”

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Power your business with complete services from PPI Pazifik Power, Inc. For the last 18 years we've offered quality power transmission products to the top utility and electric cooperatives.

We have a wide choice of top brand of meters, switchgears, energy transformers, UPS systems and more. Our experts will share their engineering know-how to help your business truly take off.



The filter monitors the current signal and compensates for the unwanted elements of the measured current.  
(Schaefer, Germany)



Hermetically sealed and SF6 insulated compact switchgear up to 36kV  
(Ormazabal, Spain)



High efficiency and precision Electricity Meters  
(Landis+Gyr, Switzerland)



A solution package for system integration, substation automation and energy management system.  
(PPI Pazifik Power, Inc., Philippines)



15kV and 69kV Dry-Type Resin Insulated Outdoor/Indoor Current & Potential Transformers  
(Ritz, Germany)



Modular UPS solutions 250kVA upto 500 kVA  
(Gamatronics, Israel)



Modular UPS solutions 100 kVA  
(Gamatronics, Israel)



Dry-type Cast Resin Glass Fibre reinforced vacuum technology (GVT) Power Transformers  
(WTW, Germany)



Batteries that are robust energy storage solutions, with a proven technology that has been used for decades.  
(Sunlight, Greece)



Design, construction and energization of substation up to 100MVA  
(PPI Pazifik Power, Inc., Philippines)



Designed and engineered for Smart Grid Distribution Automation application  
(Horstmann, Germany)



Voltage Stabilizer Three-phase from 200kVA to 6000kVA with LAN/GPRS  
(Ortea, Italy)



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