### **Features**

- ▶ High power IGBT's deliver superior output voltage regulation, tight output frequency regulation, and minimum output voltage THD. Combined with high speed switching, true pulse-width modulation (PWM) control of the inverter output produces a pristine output waveform.
- The highly reliable internal Controller Area Network (CAN) communications network provides seamless integration of peripherals and options from the control panel.
- With PowerVision® monitoring software, you can view real-time data, manage alarms, and trend historical data for each device monitored.
- Communications options

# **Powerware® 9315-625** Uninterruptible Power System



Model 500, 500 kVA / 450 kW / 400 kW Model 625, 625 kVA / 562 kW / 500 kW

Powerware has redefined availability in the power standard features: protection industry. The combination of the Powerware 9315 with Powerware Hot Sync® paralleling technology delivers the most reliable system available, providing you with the knowledge that your equipment is protected to the greatest degree possible. With more than 40 years of experience designing and building high-end, innovative UPS solutions, Powerware understands the need to deliver the ultimate in power protection and value.

### The Powerware 9315-625 is available in the following system configurations:

- Single module-reverse transfer
- Multi-module-parallel for capacity/redundancy
- Powerware Sync Control™
- Isolated redundant

#### Accessories include:

- Remote monitor panel
- Supervisory contact module
- Relay interface module
- DC battery breakers

# Each UPS offers the following

- Input isolation transformer
- High efficiency-up to 93%
- High speed, IGBT PWM inverter
- Powerware Hot Sync® wireless paralleling capability
- Large LCD monitor panel
- Highly reliable, internal CAN communication network
- Communications panel with RS232 ports and building alarms
- 12-pulse rectifier
- Digital signal processing (DSP) control
- Top cable entry
- Front access only required
- Washable air filters

#### Optional features available:

- Intelligent input filter (5% THD)
- 0.9 output p.f.
- High AIC input circuit breaker rating
- Inrush current limiter
- Internal modem
- Remote Notify™
- PowerVision® monitoring software

## Powerware Recommends

#### Software

> PowerVision®

> LanSafe™

> FORESEER®

### Connectivity





- SNMP/WEB card
- > Single port serial card > Expansion Chassis

# Service





> CELLWATCH®





Powerware Hot Sync® PF<sup>2</sup> Flywheel



PDM

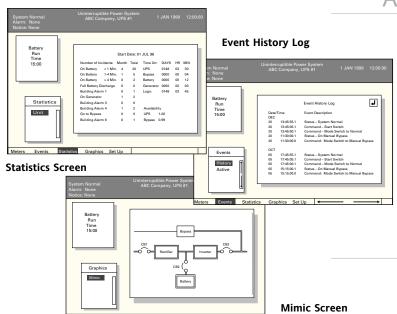


External Maintenance Bypass

System Solutions

Please contact your sales representative for a solution tailored to your specific needs.

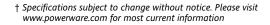
# **Advanced Communications**



- Large, easy-to-read LCD measures 191 mm x 152 mm (7.5" x 6")
- ▶ Push-button controls allow easy access to data through user-friendly interface.
- ▶ Operational metering features:
  - True RMS sensing of voltage and current
  - Real-time display
- Displays up to 400 of the most recent events. All data is accessible via modem.

		Model 625		Model 500	
		625 kVA/562 kW <sup>0</sup>	625 kVA/500 kW	500 kVA/450 kW	500 kVA/400 kW
Input voltage	Volts	400	400	400	400
Output voltage	Volts	400	400	400	400
Input voltage range					
Minimum	Volts	340	340	340	340
Maximum	Volts	440	440	440	440
Input / output frequency	Hz	50/60	50/60	50/60	50/60
AC Input					
Maximum amps <sup>②</sup>	Amps	1138	1100	910	880
Bypass input					
Nominal amps	Amps	902	902	722	722
AC output					
Nominal amps	Amps	902	902	722	722
10 Minutes max.	Amps	1118	1118	895	895
DC link					
Nominal DC voltage	Volts	384	384	384	384
Float voltage	Volts	432	432	432	432
End of discharge	Volts	320	320	320	320
Nominal amps	Amps	1542	1371	1234	1096
System efficiencies (typical)					
@ 100% load	%	92.5	93	92	92
@ 75% load	%	93	93	92	92
@ 50% load	%	92	92	91.5	91.5
Full load heat dissipation					
BTU/Hr. (x1000)		144.6	109.0	115.7	87.2
KW		42.4	31.9	33.9	25.5
Inverter efficiency (full load)	%	95	95	95	95

- Optional 0.9 output p.f.
  Maximum amps equals full load current plus battery recharge current. Shipping pallet and packaging adds 50 to 300 lbs. per shipping unit.



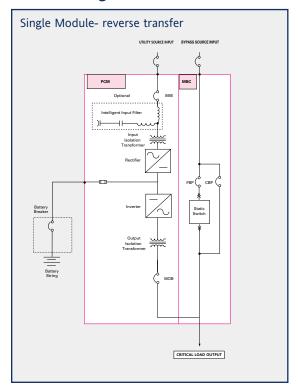


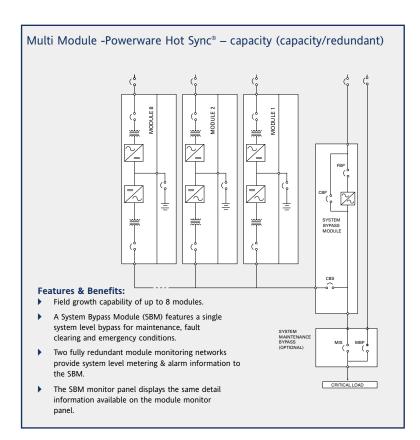
- ▶ Intelligent alarm management event record separates informational notices from situations requiring operator intervention.
- In addition to the LCD panel, LEDs indicate UPS operating status at a glance.

- Unique system performance statistics include summary information on:
  - UPS and bypass availability
  - Frequency and length of on-battery conditions
  - Building alarms
  - Time on bypass, and much more
- ▶ A hinged access cover protects an emergency power-off (EPO) button that quickly de-energizes the UPS and critical load.

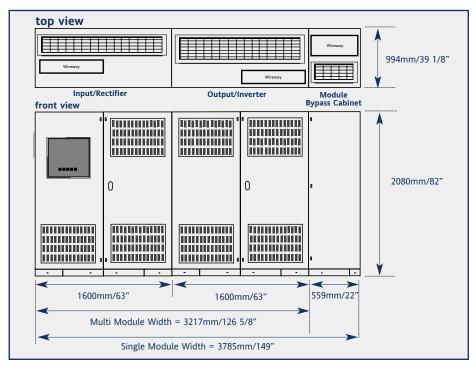
6 :6: ::			
Specifications <sup>†</sup>			
Input			
Voltage Range	+10% to –15%		
requency Range	±3 Hz of nominal		
jurge Protection	meets ANSI C62.41, Category A & B, EN 50091-2		
Power Factor	.85 lag at nominal full load; .90 lag with input filter		
nput Current Distortion	less than 12% without input filter, less than 5% with optional input filter		
nrush Current	6X input current (sub-cycle), 1x with Inrush limiter option		
Power Walk-in	Adjustable 3-60 second rectifier ramp-up to full utility load		
Output			
/oltage THD	Less than 5% (100% non-linear load with 3:1 crest factor); less than 3% (100% linear load)		
/oltage Regulation	Better than ±1% (10-100% load)		
Transient Response	Less than 5% for 100% load step or removal		
Frequency (free run)	±0.01 Hz		
requency Sync Range	±0.5 Hz		
Frequency Slew Rate	1 Hz/second maximum (adjustable)		
Overload Capability	Up to 124% for 10 min. from 125-150% for 10 seconds		
Maximum Output Capability	300% peak for 4 cycles without bypass		
Environmental			
mbient Temperature			
Operation	0°C to +40°C		
Storage	-20°C to 70°C		
Relative Humidity: Operation and Storage	Up to 95% non-condensing		
lltitude	1500 meters (5000ft.) without load derating		
audible Noise	Less than 75 dBA typical at 5 feet		
lectrostatic Discharge	Withstands 6 kV without damage or disturbance to the load; exceeds requirements of ENS0091-		
EMC	Meets FCC Class A		
	EN 50091-2 (CISPR 22, Class A, Restricted Access)		
Safety			
-	Meets EN50091-1-1		
	All cabinets provide seismic mounting features		
	Selectable DC ground fault detection capability		
Mechanical			
able Entry	Тор		
Cooling	Filtered forced air with redundant blowers		
Access	Front only		
Shipping Split	Largest single section is 63" long		
Dimensions	Single Module: 149"w x 39"d x 82"h; Multimodule: 127"w x 39"d x 82"h		
Weight (installed)	Single Module: 13,200 lbs.; Multi-module: 12,600 lbs.		

### **Oneline Diagrams**





### **Physical Dimensions**



**Invensys Powerware** 8609 Six Forks Road Raleigh, NC 27615 U.S.A. Toll Free: 1.800.356.5794 or 919.872.3020 Fax: 1.800.753.9433 www.powerware.com

PLS28FXA Reprint 03/03 Revision 03/03

Finland: 358 94 52 661 France: 33 1 6012 7400 Germany: 49 7841 666 0 Italy: 39 02 6600661 2 UK: 44 (0) 1753 608700

Southeast Asia Singapore: 65 6861 0377 China and North Asia Hong Kong: 852 2745 6682

Shinagawa, Tokyo: 81 3 3447 4441

Australia and South Pacific Sydney, Australia: 61 29878 5000 Canada

Toronto, Ontario: 416.798.0112

Brazil

Sao Paulo, Brazil: (55) 0800 176937

Mexico C.P. 11410 Mexico D.F.: 52 55 9171 7777

