



The QUEEN series UPS, provides high performance but inexpensive power protection solution for most business applications with critical file servers, network switches, hubs and small computers. The QUEEN series is available in a variety of models: 1000VA – 1500VA – 2000VA and 3000VA.

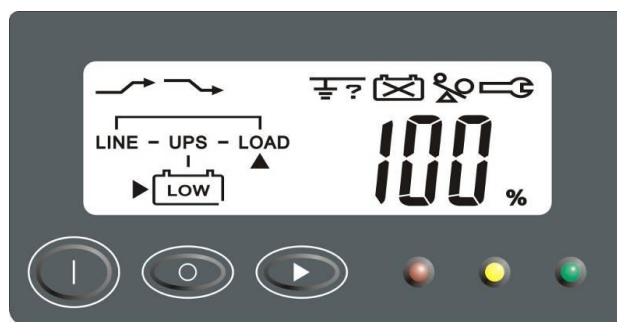
### PRINCIPLES OF WORKING

In normal condition, the load is fed by a stabilized line with the automatic AVR and filtered by over voltages with EMI filters. In mains failure condition, the QUEEN series UPS feed the load with a sinusoidal wave through the battery energy; the software, included in the envelope, controls the planned system shutdown. If an overload or a fault occurs, the electronic by-pass provides not to cut the users feeding.

### FEATURES

- Sine wave output;
- Nearly zero transfer time;
- User friendly LCD display for measurements and alarms;
- 97% high efficiency in normal mode and reduces noise and heat generated by other topology UPS;
- AVR Boos & Buck. Automatically corrects either under or over voltage condition without unnecessary battery drain and extends the battery's life ;
- Easy swappable battery function;
- Advanced battery management prevents deep discharge of the built-in battery during a power failure;
- Cold start function. Enables to turn on the UPS without connecting to the Utility;
- Plug & Play design;
- Patent RS232 and USB communication software;

### CONTROL PANEL



LED  
Utility Normal, Backup Mode, & Fault

LCD with White Backlight Bypass, Boost, Buck, UPS, Battery Low/Replace/Fault, Site Wiring Fault, Overload, UPS Fault, Load Level, Battery Level

Keypad  
Turn-on/Alarm Reset/Self-test, Turn-off, Reading Scroll

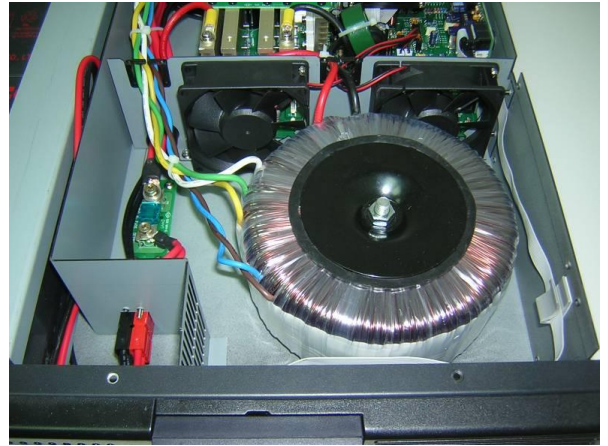
**REAR PANEL**

- 6 x Backup Outlets
- Output Breaker
- Input Fuse
- 1 x RS-232
- 1 x USB
- LAN Protection
- Output Configuration Dip Switch

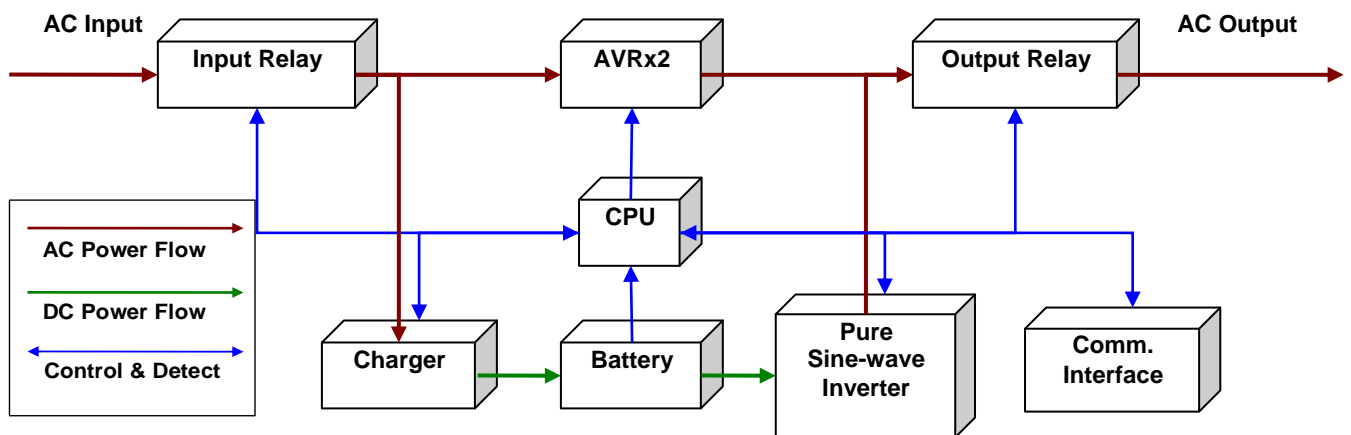


**TOROIDAL TRANSFORMER TECHNOLOGY**

- High Efficiency
- Advanced Voltage Regulation
- Perfect Output Waveform
- Quiet Operation
- Slim Style



**BLOCK DIAGRAM**



Model	QUEEN1000	QUEEN1500	QUEEN2000	QUEEN3000
Rated power VA/W	1000/600	1500/900	2000/1200	3000/1800
<b>INPUT</b>				
Voltage	220/230/240V $\pm$ 25% single phase settable with deep switch			
Frequency	50Hz or 60Hz $\pm$ 5%			
<b>OUTPUT</b>				
Voltage AC mode	230V $\pm$ 9% single phase			
Voltage Battery mode	230V $\pm$ 5% single phase			
Frequency	50Hz or 60Hz $\pm$ 0.2%			
Wave form	Sine wave			
Voltage distortion	< 3% linear load			
Transfer time	2 ~ 6 ms typical			
DC start	Yes			
<b>BATTERY</b>				
Type	Sealed Lead Acid maintenance free			
Recharge time	2 ~ 4h at 90%			
Battery voltage	24Vdc		48Vdc	
Back up time	10 minutes			
<b>PROTECTIONS</b>				
Overload AC mode	> 110% Buzzer continuously alarms & shuts down after 10 minutes			
Overload inverter mode	> 110% Buzzer continuously alarms & shuts down after 10 seconds			
Short circuit AC mode	Input fuse & Electronic circuit			
Short circuit inv. mode	Electronic circuit			
<b>MISCELLANEOUS</b>				
Efficiency	> 97% AC mode			
Signaling & commands	LED: Utility Normal, Backup Mode, & Fault LCD with White Backlight: Bypass, Boost, Buck, UPS, Battery Low/Replace/Fault, Site Wiring Fault, Overload, UPS Fault, Load Level, Battery Level Keypad: Turn-on/Alarm Reset/Self-test, Turn-off, Reading Scroll			
Relative humidity	< 95% without condensing			
Operating temperature	from 0°C to + 40°C			
Interfaces	RS232 & USB			
Compatible platforms	Windows 95/98/NT/2000/XP/Vista, Novell Netware, Linux			
Lan protection	RJ11/45			
Input plug	1 x IEC 10A			
Output sockets	6 x IEC 10A			
Dimensions (mm)	173x369x247		173x427x247	
Weight (kgs)	13	15	22	24
<b>STANDARDS</b>				
Safety	EN 62040-1			
EMC	EN 62040-3, EN 61000-3-2, EN 61000-3-3			
Marks	CE, UL			