



**JETPOWER**

Quartz (3KVA-20 KVA)



**series**

**UPS SYSTEM**

Built-in Isolation Transformer





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## Company Profile

# QUARTZ

The QUARTZ online UPS range from 3 KVA – 20 KVA, series use the most advanced PWM technology and double conversion technology to provide the perfect power protection. With its unique AVR design that expands the input range from 160Vac, the QUARTZ online UPS are best employed in places that experience utility power fluctuation. The expanded input range of the UPS will help reduce battery charge / discharge cycles thus extending the life of the battery. In addition, the QUARTZ online UPS long backup series with built-in high capacity charger (10A) can rapidly recharge the external battery bank that will provide protection for locations those go through extended utility blackout.

The QUARTZ online UPS series utilize microprocessor controller to replace traditional analogue or digital components in its control circuit. The design not only increases the MTBF of the UPS, it also provides precise equipment / computers that are connected to the UPS via built-in RS232 or RS485 interface. By using the monitoring software, users can easily obtain the UPS status and it can also schedule that turn on/off function of the unit.

The clear and high contrast LCD front panel on the UPS provides user with instant and friendly access to the status and conditions of the UPS (such as input utility power, output voltage, load, fault and battery capacity) without operating the monitoring software. For ease of ownership, The QUARTZ online UPS record up to 3996 step of data for future references and check UPS on the unit.

# JETPOWER



### Power management solution

We provide everything for the ups to software and cable Upsilon 2000

#### Features:

- With true RS232
- Support Netware , Windows 98,ME,2000,XP, Linux
- Remote UPS monitoring through TCP/IP for internet or LAN
- Power failure and battery low detection
- Graceful OS shut down
- Broadcast and record abnormal power status
- Programmable shutdown timer and warning period
- Flexible setting for auto turn-off and turn-on of system
- Graphical display of UPS status
- Automatic files saving
- Sending warning message through e-mail or pager
- Data log for power problem analysis



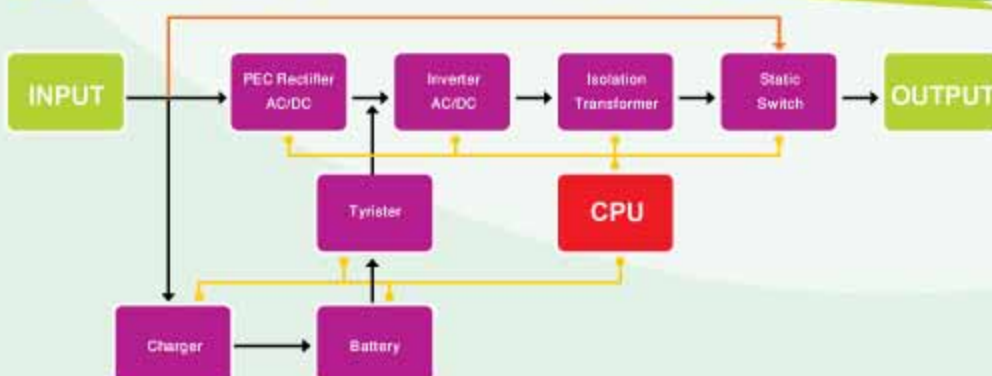
### UPS interface

Power management is also feasible through the UPS port of computer and the Upsilon 2000 software.

### SNMP/HTTP card

The optional SNMP/HTTP card allows your MIS department to monitor and control the UPS in real time via LAN or Web Browser.

### Block Diagram Of Q Series





- High performance system
- On-line double conversion topology
- True sine wave output
- Microprocessor control
- AVR design, Expand input voltage range(160 Vac-300Vac)
- Inverter design using IGBT Module
- Well protection
- Built-in isolation transformer provide clean and steady power
- Lighting and spike protection
- Electro Magnetic/Radio frequency interference (EMI/RFI) filter protection
- Outstanding overload capacity (maintains up to 30 seconds of 150% overload)
- User friendly operation
- LED and LCD display UPS status and internal messages
- Smart computer Interface (RS232 Standard)
- Remote monitoring, control and schedule switch on/power down capable
- Optional series
- External battery packs can extend discharge time from 0.5~2 Hours
- Long backup series contain 10A high capacity charger and up to 8 hours of discharge time.
- Epo ( emergency power off)
- Auto bypass switch/manual bypass switch

- High performance system
- Long backup charger (10A)
- MTBF 150000 Hours
- Built-in isolation transformer provide clean and steady power
- Inverter design using IGBT module
- Server, LAN and data-center protection



Quartz Series

**JETPOWER**

U.P.S SYSTEM

# Quartz Technical Specifications

power	Model	3 KVA	6KVA	10KVA	10 KVA (3/1)	15 KVA (3/1)	20 KVA (3/1)
	Topology	Double Conversion – On Line					
	Capacity	2.4 KW	4.8 KW	8 KW	8 KW	12 KW	16 KW
Input	Voltage Range	160 Vac-310 Vac			380 Vac±30%		
	Frequency Range	50/60 Hz ± 5 %					
	Phase	Single Phase			Three Phase		
	Current	19A	38A	63A	55A	80A	100A
	Generator	Support any Generator					
Output	Voltage Range	110/115/120 Vac ± 2% (Typical) 220/230/240 Vac±2% (Typical)					
	Frequency Range	50/60 Hz ± 0.05 %					
	Power Factor	0.8					
	Phase	Single Phase					
	Wave Form	True Sine Wave					
	Distortion	< 3 % Linear Load					
	Transfer Time	0 ms					
	Over Load	< 110 % Continuously 110 % - 150 % For 50 Sec > 150 % Constant Power For 1 Sec					
	Crest Factor	3:1					
	Isolation Transformer	Yes					
Ac-Ac Efficiency		85% ( Full Load Conditional )					
	Efficiency ( Battery Mode)	87%					
Battery	Tape	Sealed , maintenance – free Lea Acid					
	DC Voltage	96 V DC	192 V DC				
	Backup Time	0 – 25 Minute for Standard Series 0.5 – 2 Hours Battery Packs 2 – 8 Hours For Long Backup Series					
	Recharge Time	4 Hoarse recovery to 90% (Typical )					
Built - in Charger for Long Backup Series		10 A					
By Pass	Voltage	165~275VA			270~485VDC		
	Frequency	45~55Hz					
	Manual By Pass	Yes					
	MTBF	150,000 H					
	MTTR	30 min					
Indicator	LED Panel	Line Normal , By Pass Output , Inverter Output , Battery Low , Over Load , UPS Fault					
	LCD Panel	Operation Status , Internal Messages (Input Voltage and Frequency , Output Voltage and Frequency , Battery Voltage , Load Size ) , Model and Version , 3996 Data Records					
	Audible Alarms	Battery Discharge , Battery Low , Over load					
Communication	Intelligent Interface	RS 232 Port and SNMP Card ( Optional )					
	Compatible O/S	Windows 95/98/2000/NT, Linux, Novel, Unix , SNMP, HTTP					
Environment	Audible Noise (at1 m )	< 55 dB					
	Ambient Operation	3000 m Max Elevation 0-95% Humidity. Non Condensing 0-40 °C					
Certification	EN 62040-2:1999 / EN 61000-3-3:1995 + A1:2001 EN 6100-3-2:2000EN 50091-2:1995 EN 62040-1-102003						
Physical	Net Weight ( w/b batt )	46 Kg	80 Kg	121 Kg	175 Kg	275 Kg	365 Kg
	Dimension ( L x W x H )	656x215x410	680x240x700	710x480x970			740x480x1150
	EPO	Yes					
	Protection Direct	IP 20					





Quartz series

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