



1 - 3 kVA

# QUANTUM SERIES

UNINTERRUPTIBLE POWER SUPPLIES

On-line

*Most cost-effective solution with outstanding performance  
Ready to meet the most challenging power conditions.*

- On-line topology
- Pure sinewave output
- Graphic LCD display
- CE Compliant

## GENERAL SPECIFICATIONS

- True double-conversion design with high adaptability to harsh mains conditions
- DSP design enables precise and reliable control
- High efficiency results in energy saving
- Output power factor 0.8 (up to 0.9 under 30°C)
- Wide AC input range (110-300VAC)
- Automatic switching between 50/60Hz system
- Automatic boost/buck
- $\pm 1\%$  voltage regulation
- Supports AC generator
- Supports DC start-up and auto restart
- Supports USB/SNMP/RS485/AS400 communication card





# 1 - 3 kVA TECHNICAL SPECIFICATIONS



MODEL	QUANTUM 1000	QUANTUM 2000	QUANTUM 3000
Capacity	1000VA/800W*	2000VA/1600W*	3000VA/2400W*
<b>INPUT</b>			
Voltage range	110-300 VAC		
Power factor	≥ 0.98 @ full RCD load		
Frequency range	40-70Hz		
Generator set	2.2 x UPS Rating Power		
<b>OUTPUT</b>			
Waveform	Pure sine wave		
Nominal voltage	200/208/220/230/240 VAC		
Voltage regulation	± 1%		
Voltage THD	< 4% @ linear load < 7% @ non-linear load		
Frequency (synchronized range)	46 - 54Hz / 56 - 64Hz		
Frequency (battery mode)	50 ± 0.05Hz / 60 ± 0.05Hz		
Overload capability	105% - 150% : 47s ~ 25s 150% - 200% : 25s ~ 300ms > 200% : 200ms		
Load crest ratio	3:1		
<b>TRANSFER TIME</b>			
LINE↔BAT	0ms		
BYPASS↔LINE	< 4ms		
<b>EFFICIENCY</b>			
Line mode	> 89%	> 90%	> 90%
Battery mode	> 83%	> 83%	> 83%
<b>BATTERY</b>			
Type	12VDC/45W	12VDC/45W	12VDC/45W
Number of battery	2	4	6
Back-up time	4.5 min		
Charging time	< 7 hours to 90%		
<b>INDICATOR &amp; ALARM</b>			
Display	LCD Display		
Audible alarm	Battery mode / Battery low / Overload / Fault		
<b>INTERFACE</b>			
RS232	Standard		
Intelligent slot	USB/SNMP/RS485/AS400 Card		
<b>DIMENSIONS</b>			
Dimensions (mm) HxWxD	229x144x345	328x190x393	
Net weight (kg)	9.2	17.2	22.6
<b>ENVIRONMENT</b>			
Operating temperature range	0°C ~ 40 °C	0°C ~ 40 °C	0°C ~ 40 °C
Audible Noise	< 45 dBA	< 50 dBA	< 50 dBAH