



6 - 10 kVA

# QUANTUM SERIES

UNINTERRUPTIBLE POWER SUPPLIES

*High performance true online double conversion UPS*

## GENERAL SPECIFICATIONS

- DSP Control
- 0.9 Output power factor
- Wide input range
- High efficiency mode(ECO)
- Frequency converter mode
- Input THDi < 5%
- Output voltage regulation < 1%
- Output THDv < 2%
- Fan speed control
- Extendable run time
- Multiple communication ports
- Optional SNMP & Relay Cards
- N+X parallel redundancy
- Maintenance bypass
- Dot matrix LCD display



On-line, 1 phase in / 1 phase out



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## TECHNICAL SPECIFICATIONS

MODEL	QUANTUM 106	QUANTUM 106KS*	QUANTUM 110	QUANTUM 110KS*
Capacity (VA/W)	6000VA/5400W		10000VA/9000W	
<b>INPUT</b>				
Acceptable input voltage	110 ~ 276VAC			
Adjustable bypass voltage	110 ~ 276VAC			
Frequency range	45Hz ~ 55Hz / 54Hz ~ 66Hz			
Phase	Single phase with ground			
THDI	< 5% with R Full load			
Power factor	≥ 0.99 @ R Full Load			
<b>OUTPUT</b>				
Voltage	208/220/230/240VAC			
Voltage regulation	< 1%			
Frequency (Synchronized range)	45Hz ~ 55Hz / 54Hz ~ 66Hz			
Frequency (Battery mode)	50/60 ± 0.05 Hz			
Current crest factor	3:1			
Harmonic distortion	2% @ Linear Load 5% @ Non-Linear Load			
Output waveform	Pure Sine Wave			
Overload capacity	Line mode	*2min @105% ~ 125% load 30s @ 125% ~ 150% load 1s @ >150% load		
	BAT mode			
	Parallel	UP to 4		
<b>EFFICIENCY</b>				
Line mode	> 92% @ Full load and battery fully charged			
BAT mode	> 92% @ Full load and 12Vdc/battery			
ECO mode	> 96% @ Full load and battery fully charged			
<b>BATTERY</b>				
Numbers of internal batteries per set	20	Depending on the capacity of external batteries	20	Depending on the capacity of external batteries
Battery type	12V/7Ah		12V/9Ah	
Backup time (full load)	> 5 minutes		> 5 minutes	
Recharge time	5 hours to 90%		5 hours to 90%	
Charging current (max)	1.2A	4.0A	1.2A	4.0A
Rated battery voltage	240VDC			
<b>TRANSFER TIME</b>				
BAT ↔ LINE	0ms			
INV ↔ BYPASS	0ms			
ECO → INV	< 10ms			
<b>INDICATOR</b>				
LCD	Load Level / Battery Level / Battery Mode / AC Mode / Bypass Mode / Fault			
<b>AUDIBLE ALARM</b>				
Battery mode	Sounding every 4 seconds			
Low battery	Sounding every second			
Fault	Continuously Sounding			
Overload	Sounding twice every second			
<b>GENERAL</b>				
Operating environment	0-45° C			
Relative humidity	0-95% (non-condensing)			
Acoustic noise	< 50dB @ 1 Meter			
Tower case (HxWxD) mm	708x260x550			
<b>INTERFACE</b>				
RS232/USB	Software supports Windows Family, Linux, Sun Solaris, IBM Aix, Compaq True64, SGI IRIX, FreeBSD, HP-UX, and MAC			
External slot	SNMP/AS400/Relay Card			
EPO	Emergency Power Off			