



1 - 3 kVA

# QUANTUM RT SERIES

UNINTERRUPTIBLE POWER SUPPLIES

*High power density rack-tower 2-in-1 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
- Compact design
- Extendable run time
- Power management software
- Multiple communication ports
- Optional SNMP & Relay Cards
- Temperature compensation



1 phase in / 1 phase out



1 - 3 kVA

# TECHNICAL SPECIFICATIONS



MODEL		QUANTUM 1RT	QUANTUM 2RT	QUANTUM 3RT
Capacity (VA/W)		1000VA/900W	2000VA/1800W	3000VA/2700W
<b>INPUT</b>				
Voltage range		120~276VAC depends on load level		
Frequency range		45-55Hz / 54-66Hz		
Phase		Single phase with ground		
THDI		< 5% with full load		
Power factor		≥ 0.99@R full load		
<b>OUTPUT</b>				
Voltage		208/220/230/240VAC		
Voltage regulation		± 1%		
Frequency		45-55Hz / 54-66Hz (synchronized range)		
Frequency (bat mode)		50Hz / 60Hz ± 0.2Hz		
Current crest ratio		3:1		
Harmonic distortion		≤ 2% @ Linear Load ≤ 5% Non-Linear Load		
Output waveform		Pure Sine Wave		
Overload capacity	Line mode	12s @102% - 130% load 1.5s @130% - 150% load		
	BAT mode	100ms @ > 150%		
<b>EFFICIENCY</b>				
Line mode		> 88%	> 89%	> 92%
BAT mode		> 83%	> 84%	> 86%
Eco mode		> 95%		
<b>BATTERY</b>				
Number of batteries		3	4	6
Battery type		12V/7.2Ah	12V/9Ah	
Backup time		> 5 minutes		
Recharge time		3 hours to 90%		
Charging current		1.5A		
<b>TRANSFER TIME</b>				
LINE ↔ BAT		0ms		
INV ↔ BYPASS		0ms		
INV → ECO		1ms		
ECO → INV		< 10ms		
<b>INDICATOR</b>				
LCD		Load Level / Battery Voltage / Battery Mode / AC Mode / Bypass Mode Information		
<b>AUDIBLE ALARM</b>				
BAT mode		Sounding every 4 seconds		
Battery low		Sounding every second		
Fault		Continuously sounding		
Overload capacity		Sounding twice every second		
<b>GENERAL</b>				
Operation environment		0 - 40°C		
Relative humidity		0 - 95% (non-condensing)		
Acoustic noise		< 45dBA	< 50dBA	
Weight (kg)		16.2	19.7	27.8
Rack case (HxWxD)		(2U) 86.5x438x435		(2U) 86.5x438x604
<b>INTERFACE</b>				
RS232 / USB		Software supports Windows Family, Linux, Sun Solaris, IBM Aix, Compaq True64, SGIIRIX, FreeBSD, HP-UX, MAC		
Intelligent slot		SNMP/AS400 Card/RS485		
EPO		Emergency Power Off		
AC output		10A IEC C13 * 8 pieces		10A IEC C13 * 8 pieces + 16A IEC C19 * 1 piece