

# Q-RX-700

## Output

Capacity (VA)	700
Capacity (Watts)	490
Current (peak amp) 120/130 VAC	6.4 / 3
Waveform	High resolution, pure sine wave
Outlets	6

## Input

Current (max amp) (120/130 VAC)	8 / 4
Power factor	> .95
Frequency	50/60 Hz (auto) / 45/65 Hz (inverter phase lock range)

## General

UPQ power conditioning topology	Five (5) Stages of Isolation and Conversion, High Frequency, True On-line digital sine wave
Desktop Configuration	Yes
Rack Mount Configuration	Yes

## Voltage Regulation

Input voltage range:	
- Full load without using battery	North America 80 to 140 VAC International 165 to 270 VAC
- Half load without using battery	North America 75 to 140 VAC International 160 to 270 VAC
Output voltage regulation	± 2%

## Isolation

Common-mode noise rejection	Yes
Normal-mode noise rejection	Yes

## Suppression

IEEE 587/ANSI 62.41 3KA/6KV surge let-through (NA)	170 V normal mode (L or N) / 230 V common mode (L+N to G)
IEEE 587/ANSI 62.41 3KA/6KV surge let-through (international)	340 V normal mode (L or N) / 450 V common mode (L+N to G)
Joules (energy absorption)	300 Joules
Peak surge current (amp)	80,000 Amps
Multi-stage protection	Yes
Normal & common mode certified	Yes
Conditioning	Yes

Output total harmonic distortion	Less than 3% under linear load, less than 5% under non-linear load
Output frequency range	50/60 Hz $\pm$ 0.1 Hz (except the synchronization to line during brownout)
Input Frequency range	45-65 Hz

## High Frequency on-Line Inverter

Inverter driver frequency	50 KHz
Overload capacity	>110% continuous
Crest Factor	3:1
Transfer Time	Zero
Efficiency	85% Min
UPQ to bypass/bypass to UPQ	Zero cross transfer, less than 4 ms (2 mSec. minimum)

## Battery

Full load run time	> 5 min
Half load run time	> 15 min
DC voltage	24 VDC
Recharge time	5 to 8 hours
Recharge current (amps)	1.5
Hot-swappable	Yes
Front panel removal	Yes

## Physical

WxDxH	19 x 17.5 x 3.5 in (48.3 x 44.5 x 8.9 cm)
Weight in lbs/kg	40 / 18
UPQ size	2U
Weight includes internal batteries	Yes
Battery size	19 x 17.5 x 3.5 in (48.3 x 44.5 x 8.9 cm)
Battery Pack in lbs/kg (optional)	30 / 13.6

## Battery Charger

Microprocessor controller	Yes
Expansion	Yes
Extended pack option	Yes
Connect/disconnect	Yes

## Front Panel Display

System status information	Yes
Inverter status	Yes
Bypass status	Yes

Load status	4 segment
Battery status	4 segment
Diagnostic status	Yes

## Diagnostics

POST	Yes
Bypass	Yes
Line to output sync	Yes
Battery status	Yes
Inverter error	Yes
AC input failure	Yes
Overload	Yes

## Monitoring

Remote shutdown	Yes
Remote diagnostics	Yes
Scheduled shutdown	Yes
Input voltage monitoring	Yes
Input frequency monitoring	Yes
Output voltage monitoring	Yes
Output frequency monitoring	Yes
Output Load monitoring	Yes
Reporting	Yes
Graphicing	Yes
Plotting	Yes

## Auto Restart (Input Voltage)

120 VAC	>90 - 130 VAC
230 VAC	>80 - 260 VAC

## DC Startup

DC Startup	Yes
------------	-----

## Environment

Audible noise	< 50 dBA at 1 meter
Temperature (MIL-STD-810)	-22° to 140° F (-30° to 60° C)
Relative humidity (MIL-STD-810)	0 to 95% non-condensing
Vibration (MIL-STD-167)	4-50 Hz / 2 g
Shock (MIL-STD-810E)	2 g to 30 g

## Approvals

UL	Compliant
UL medical	Compliant
TUV	Compliant
CE and CE medical	Yes

## Warranty

Warranty	1 year parts and labor
----------	------------------------

## Protection

Overload	> 100% full load / 15-20 sec delay
Over/under voltage at I/P , O/P	Inverter shutdown protection
Short circuit	Yes
Over temperature	Yes

