

# Q-MS 3

## Output

Capacity (VA)	3000
Capacity (Watts)	2400
Current (peak amp) 120/220 (max amps)	20 / 11.5
Nominal voltage range	120 / 220 VAC (dual outputs is available as required)
Frequency	50 or 60 Hz $\pm$ .1%
Waveform	High Resolution, pure sine wave
Outlets	Terminal Block

## Input

Current (peak amps)	30
Power factor	0.8
Frequency	50 or 60 Hz $\pm$ 5%

## General

UPQ power conditioning topology	Five (5) Stages of Isolation and Conversion, High Frequency, True On-line digital sine wave
Desktop Configuration	No
Rack Mount Configuration	No
CE approved	Yes

## Voltage Regulation

Input voltage range: single phase	176 to 297 VAC
Input voltage range: three phase	NA
Full load without using battery	$\pm$ 20%
Half load without using battery	$\pm$ 25%
Output voltage regulation	$\pm$ 1%

## Isolation

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

## Suppression

IEEE 587/ANSI 62.41 (North America)	Yes
IEEE 587/ANSI 62.41 (International)	Yes
Joules (energy absorption)	2000
Peak surge current (amp)	20000
Multi-stage protection	Yes
Conditioning	Yes
Output frequency regulation	50 / 60 Hz
Input frequency range	50 / 60 Hz $\pm$ 0.5% Hz

## High Frequency On-Line Inverter

Inverter driver frequency	± 0.5%
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
Extended battery packs	Cabinet
DC voltage	192 VDC
Recharge time	5 to 8 hrs
Recharge current (amps)	5
Hot-swappable	Yes, with external battery bank
Front panel removal	No

## Environment

Maximum heat dissipation kW	0.7
Maximum heat dissipation BTU/hr	2,389
Operating temperature	32° to 104° F (0° to 40° C)
Humidity	20-90% non-condensing
Front panel removal	< 45 dBA at 1 meter

## Physical

WxDxH	19 x 22.2 x 10.25 in (482 x 564 x 260 mm)
Weight in lbs/kg (no battery)	178.57 lbs / 81 kg
Battery pack A/B (WxDxH)	9 x 23 x 27 in (230 x 578 x 685 mm) / 19 x 13 x 33in (480 x 340 x 845 mm)
Battery pack A/B weight	136 lbs (62 kg) / 355 (161 kg)

