



STEVE TSHWETE LOCAL MUNICIPALITY

Your ref.

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2010/04/12

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To whom it may concern

QUOTATION Q08/04/2010: UPS SYSTEM

Supply/Delivery/Rigging and (commissioning by the developer of the product for warranty purposes) of the UPS with the following specification.

The UPS must be installed on the 2nd floor, Civic centre, corner Walter Sisulu & Wanderers avenue, in Middelburg.

The compulsory site meeting will be held on the 19th of April 2010, 10:00am at office B318, 2nd floor at Civic centre.

IT SERVICES

20kVA MP200 3in/1out UPS with 45 - 60min backup

1. True double conversion on - line Transformer based level 9 UPS.
2. Three phase input / single phase output.
3. Maintenance Bypass Switch.
4. Static Bypass switch.
5. IGBT,PWM controlled rectifier.
6. High Overload capability.
7. Quiet operation @ 55dBA and lower.
8. Simple Network Management Protocol (SNMP) Capability.
9. With Extended back-up option available.
11. Separate battery charging circuit for increased battery life.
12. Local designed, manufactured and serviced.
13. Locally based branch 60KM radius for fast response time to a breakdown.
14. DC isolator for battery Isolation.

Input

Voltage - 400Vac at 50Hz + - 5%
3 phase in / single phase out
Charger DC Voltage regulation - + - 1%
DC Ripple Voltage at less than 1%

Output

Rated output – 20kVA (16KW)
Power factor - 0.8pf Lagging
Load power factor range - from 0.6 IND to unity within KW rating
Output voltage - 230Vac
Regulation no load to full load(steady state) - + -1%
Voltage regulation with 100% Load application - + - 5%
Recovery time to Steady State - 30 ms
Overload capability - 110% for 30seconds
Crest Factor - 3:1
Total Harmonic Distortion - Less than 5%(typical 3% for linear loads)
Running frequency - 50Hz + - 0.05%
Frequency synchronized with mains - 50Hz + - 1% (adjustable)

Static Switch

Transfer time - No break transfer
O/L Rating 100ms - 1000%

General

Efficiency (input /output) - 89%
Lightning protection - Designed to withstand test impulses of of 6kV an 3KA

Environment

Acoustic noise - 55DBA @ 1meter
Operating temperature range - 0 - 40 degrees celsius
Relative humidity (non condensing) - 95%

Battery

Type - Calcium maintenance free Batteries
Life Span - 3 - 5 years

Interfaces

Standard - True intelligent RS232
Optional - Relay contacts for relay alarm panel
Software - SNMP capable

UPS's for Switches

3kVA MP100 1in/1out UPS with 10-15 min backup(INTERNAL BATTERIES)

1. True double conversion on - line Transformer based level 9 UPS.
2. Three phase input / single phase output.
3. Maintenance Bypass Switch.
4. Static Bypass switch.
5. PWM controlled rectifier.
6. High Overload capability.
7. Quiet operation @ 55dBA and lower.
8. Simple Network Management Protocol (SNMP) Capability.
9. With Extended back -up option available.
10. Local designed, manufactured and serviced.
11. Locally based branch 60KM radius for fast response time to a breakdown.
12. DC isolator for battery Isolation.

Input

Voltage - 400Vac at 50Hz + - 5%

3phase in /single phase out

Charger DC Voltage regulation - + - 1%

DC Ripple Voltage at less than 1%

Output

Rated output – 3kVA(2,4KW)

Power factor - 0.8pf Lagging

Load power factor range - from 0.6 IND to unity within KW rating

Output voltage - 230Vac

Regulation no load to full load(steady state) - + -1%

Voltage regulation with 100% Load application - + - 5%

Recovery time to Steady State - 30 ms

Overload capability - 110% for 30seconds

Crest Factor - 3:1

Total Harmonic Distortion - Less than 5%(typical 3% for linear loads)

Running frequency - 50Hz + - 0.05%

Frequency synchronized with mains - 50Hz + - 1% (adjustable)

Static Switch

Transfer time - No break transfer

O/L Rating 100ms - 1000%

General

Efficiency (input /output) - 89%

Lightning protection - Designed to withstand test impulses of of 6kV an 3KA

Environment

Acoustic noise - 55DBA @ 1meter

Operating temperature range - 0 - 40 degrees celsius

Relative humidity (non condensing) - 95%

Battery

Type - Calcium maintenance free Batteries

Life Span - 3 - 5 years

Interfaces

Standard - True intelligent RS232

Optional - Relay contacts for relay alarm panel

Software - SNMP capable

Contact Number: (013) 249 7016.

Quotations must be accompanied with a valid tax clearance certificate,

And must be valid for the period of 60 days.

The closing date for quotations will be on the **23rd April 2010, at 12:00** and must be hand delivered on the second floor at Office Number: B318.

Yours faithfully

Chief IT Services