



STEVE TSHWETE LOCAL MUNICIPALITY

Your ref. 16/2/1

Telephone (013) 2497000

Fax (013) 2432550

Our ref. 0000E. 8018B
(Louis Barnard)

P O Box 14
MIDDELBURG, MPUMALANGA
1050

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www.stevetshwetelm.gov.za

E-Mail : council@stevetshwetelm.gov.za

To whom it may concern

QUOTATION Q06 /02/2010: UPS SYSTEM

ELECTRICAL DEPARTMENT

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
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Battery

Type - Calcium maintenance free Batteries
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Interfaces

Standard - True intelligent RS232

Optional - Relay contacts for relay alarm panel

Software - SNMP capable

Quotation forms will be available at the office of Mr. L. A. Barnard

Office Number: A218, First floor, Electrical Department.

Contact Number: (013) 249 7140/7342.

The following information is required:

Supplier: _____

Supplier contact number: _____

Quotation amount (Vat included) _____

Quotations will close on the **05 March 2010, at 12:00** and must be submitted on the second floor at Office Number: C305.

Yours faithfully

W.D. FOUCHÉ
MUNICIPAL MANAGER

