



# STEVE TSHWETE

## LOCAL MUNICIPALITY

Your ref.

Telephone (013) 249 7000

Fax (013) 243 2550

Our ref. N Chauke

P.O. Box 14

MIDDELBURG, MPUMALANGA

2009-11-23

1050

e-mail : [nchauke@stevetshwetelm.gov.za](mailto:nchauke@stevetshwetelm.gov.za)

[www.stevetshwetelm.gov.za](http://www.stevetshwetelm.gov.za)

### UNINTERRUPTIBLE POWER SUPPLY (UPS)

Steve Tshwete Local Municipality requires formal written quotations from service providers for the supply, delivery and installation/commissioning of the 30KVA MP3000 UPS 3in/3out with 38 - 50 min backup.

#### Specifications:

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.
10. Intelligent LCD display
11. 100% unbalanced load capability.
12. Separate battery charging circuit for increased battery life.
13. Local designed, manufactured and serviced.
14. Locally based branch 60KM radius for fast response time to a breakdown.
15. DC isolator for battery Isolation.

#### Input

Voltage - 400Vac at 50Hz + - 5%  
3phase in / 3 phase out

Tolerance - +10% -15%

Charger DC Voltage regulation - + - 1%

DC Ripple Voltage at less than 1%

#### Output

Rated output - 30KVA (24KW)

Power factor - 0.8pf Lagging

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

Output voltage - 400/230Vac or 415/249Vac 3 phase 4 wire

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

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

Regulation with 100% Unbalanced load - + \_ 1% phase voltage regulation

Phase displacement at 100% unbalanced load - 120degrees +- 2.5%

Recovery time to Steady State - 5 ms

Overload capability - 150% for 10seconds/ 105% for 30min

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 6kV a 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

### **Monitoring**

Front panel - intelligent LCD panel

Voltage free contacts - Available for remote monitoring by a remote alarm panel or building management system + DB9

### **Interfaces**

Standard - True intelligent RS232

Optional - Relay contacts for relay alarm panel

Software - SNMP capable

### **Support and maintenance**

- Describe what support options are available and at what cost.
- Describe the escalation procedures to be followed.
- State whether there are any tools which will have to be purchased by STLM for the delivery of the completed product for support.
- Reseller must hold spares locally and the UPS must be South African product.

### **Change Management**

Outline how you ensure service continuity during the commissioning / transition to the new UPS to be implemented. Indicate how business continuity will be achieved.

Provide reference sites for the installed UPS and contacts.

Please indicate delivery period.

**GENERAL NOTES:**

1. For site inspection, please contact Noah Chauke.
2. The Council is not bound to accept the lowest or any quotation.
3. The price must be valid for a fixed period of 60 days.
4. Quotations must be accompanied by a valid **tax clearance certificate** and the **Company Registration**.
5. Written quotations should be submitted to the office of the Senior Manager: IT Services, Room B318, Second Floor, Civic Centre, Wanderers Avenue, Middelburg, Mpumalanga or faxed to 013 243 2550 not later than 12:00 on the **01<sup>st</sup> of December 2009**.
6. Service provider not registered with council must log on to [www.stevetshwetelm.gov.za](http://www.stevetshwetelm.gov.za) or visit Mr Jabu Mahlangu at the Municipal Stores at Corner Protea and Kerk Street, Middelburg, to get the forms and submit a completed enlistment application before submitting the quotation.

For any queries, please contact **Noah Chauke**, telephone **013 249 7165/082 442 6939**.