



Kenya Power

TITLE:

**SPECIFICATION FOR
GENERATOR WITH WELDING
SET**

Doc. No.

KP1/3CB/TSP09/082

Issue No.

1

Revision No.

0

Date of Issue

2015-02-05

Page 1 of 7

TABLE OF CONTENTS

0.1 Circulation List

0.2 Amendment Record

FOREWORD

1. SCOPE
2. REFERENCES
3. TERMS AND DEFINITIONS
4. REQUIREMENTS
5. TESTS AND INSPECTION
6. MARKING AND PACKING
7. DEMONSTRATION AND DRAWINGS APPROVAL

ANNEX A: *Guaranteed Technical Particulars (to be filled and signed by the Supplier and submitted together with copies of the manufacturer's catalogues, brochures, drawings, technical data, sales records and copies of certificates for tender evaluation)*

Issued by: Head of Section, Standards Development

Authorized by: Head of Department, Standards

Signed:

Signed:

Date: 2015-02-05

Date: 2015-02-05



TITLE:
**SPECIFICATION FOR
GENERATOR WITH WELDING
SET**

Doc. No.	KP1/3CB/TSP09/082
Issue No.	1
Revision No.	0
Date of Issue	2015-02-05
Page 2 of 7	

0.1 Circulation List

COPY NO.	COPY HOLDER
1	Manager Standards
2	Supply Chain Manager, Procurement

Electronic copy (pdf) on KPLC server currently:
<http://172.16.1.40/dms/browse.php?fFolderId=23>

0.2 Amendment Record

Rev No.	Date (YYYY-MM-DD)	Description of Change	Prepared by (Name & Signature)	Approved by (Name & Signature)

Issued by: Head of Section, Standards Development

Authorized by: Head of Department, Standards

Signed:

Signed:

Date: 2015-02-05

Date: 2015-02-05



TITLE:

**SPECIFICATION FOR
GENERATOR WITH WELDING
SET**

Doc. No.

KP1/3CB/TSP09/082

Issue No.

1

Revision No.

0

Date of Issue

2015-02-05

Page 3 of 7

FOREWORD

This specification has been prepared by the Standards Department in collaboration with Transmission Department both of The Kenya Power and Lighting Company Limited (KPLC) and it lays down requirements for Generator with Welding Set. It is intended for use by KPLC in purchasing the items.

1. SCOPE

This specification is for Generator with Welding Set for use by the company's Network Maintenance Teams.

The specification stipulates the minimum requirements for Generator with Welding Set acceptable for use in the company and it shall be the responsibility of the Supplier to ensure adequacy of the design, good workmanship and good engineering practice in the manufacture of the products for KPLC.

The Generator with Welding Set shall be of proven design and it is the responsibility of the Supplier to ensure that the offered design is of the highest quality and guarantees excellent service to KPLC.

2. REFERENCES

Applicable ISO, IEC Standards and Kenya Standards.

References to brand names or catalogue numbers are intended to be descriptive only and not restrictive. The Tenderer may adopt higher standards, brand names, and or catalogue numbers in its Tender, provided that it demonstrates to KPLC's satisfaction that the substitutions ensure equivalence to all requirements of this specification.

3. TERMS AND DEFINITIONS

For the purpose of this specification the terms and definitions given in the reference standard shall apply.

4. REQUIREMENTS

4.1 SERVICE CONDITIONS

The Generator with Welding Set shall be suitable for use outdoors in tropical areas and harsh climatic conditions including areas exposed to sea spray (along the coast),

Issued by: Head of Section, Standards Development

Authorized by: Head of Department, Standards

Signed:

Signed:

Date: 2015-02-05

Date: 2015-02-05



TITLE:

**SPECIFICATION FOR
GENERATOR WITH WELDING
SET**

Doc. No.

KP1/3CB/TSP09/082

Issue No.

1

Revision No.

0

Date of Issue

2015-02-05

Page 4 of 7

humidity of upto 90% and average ambient temperature of +30°C with a minimum of -1°C and a maximum of +40°C.

4.2. DESIGN AND CONSTRUCTION

4.2.1 The Generator with Welding Set shall be manufactured to applicable ISO Standards, Kenya Standards and the requirements of this specification. All materials used shall have protection against corrosion.

4.2.2 The Generator with Welding Set shall be designed for heavy duty applications. It shall be portable and suitable for use in off grid field sites for powering electric devices.

4.2.3 The Generator with Welding Set shall be of the following minimum features:

- a) Rugged construction
- b) Heavy duty
- c) Power output not less than 5KW
- d) Output voltage 240 Vac
- e) Frequency 50 Hz
- f) Petrol fueled
- g) Welding Rate: Normal: 200 Amp, 250 Amp. & 400 Amp. .
- h) Diesel engine 10, 12 & 22 H.P
- i) Engine cooling air cooled
- j) Starting – Electric start / Manual hand cranking.
- k) Battery charging – 12 Volt dynamo

4.2.4 The generator shall be complete with accessories and features as per the general arrangement shown in Figure 1:

Issued by: Head of Section, Standards Development

Authorized by: Head of Department, Standards

Signed:

Signed:

Date: 2015-02-05

Date: 2015-02-05

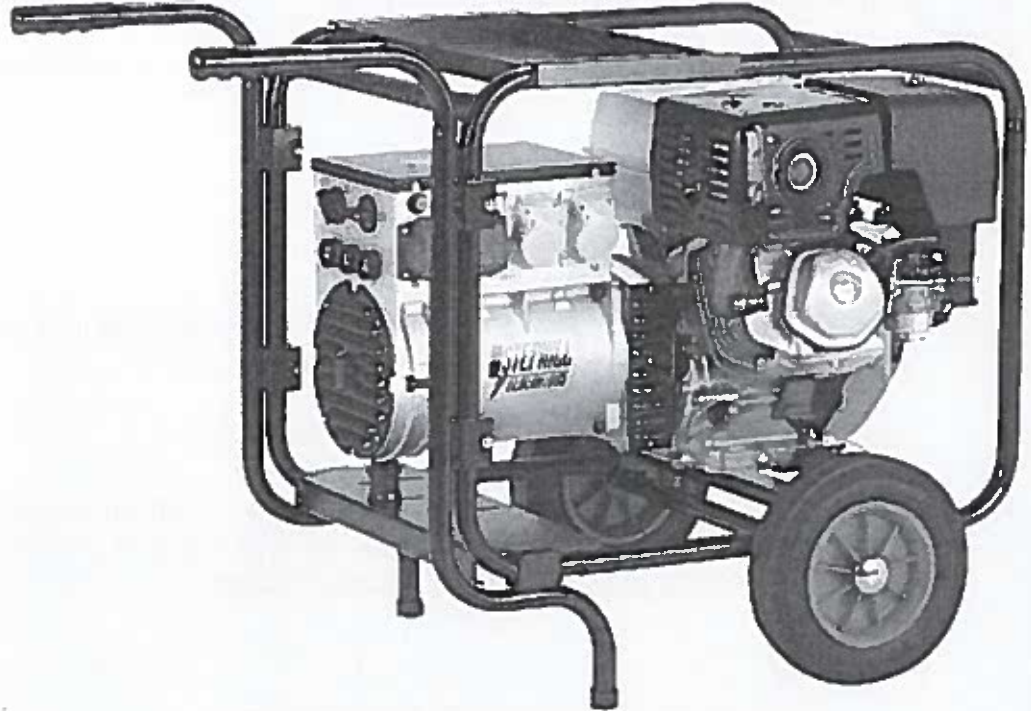


Fig 1: General Arrangement of Generator

5. TESTS AND INSPECTION

- 5.1 The Generator with Welding Set shall be inspected and tested in accordance with the requirements of this specification. It shall be the responsibility of the supplier to test or to have all the relevant tests performed.
- 5.2 Copies of previous test certificates by a third party testing laboratory accredited to ISO/IEC 17025 shall be submitted with the offer for evaluation. A copy of the accreditation certificate for the testing laboratory shall also be submitted with the tender (all in English Language). Any translations of certificates and test reports into English language shall be signed and stamped by the Testing Authority.
- 5.3 Test Certificates for the Generator with Welding Set to be supplied shall be submitted to KPLC for approval before shipment/delivery of the goods.
- 5.4 On receipt of the Generator with Welding Set, KPLC will inspect them and may perform or have performed any of the relevant tests in order to verify compliance with the specification. The supplier shall replace without charge to KPLC, Generator with Welding Set which upon examination/inspection, test or use fail to meet any or all of the requirements in the specification.

Issued by: Head of Section, Standards Development

Authorized by: Head of Department, Standards

Signed:



Signed:



Date: 2015-02-05

Date: 2015-02-05



TITLE:
**SPECIFICATION FOR
GENERATOR WITH WELDING
SET**

Doc. No.	KP1/3CB/TSP09/082
Issue No.	1
Revision No.	0
Date of Issue	2015-02-05
Page 6 of 7	

6. MARKING AND PACKING

6.1 The following information shall be marked legibly and in a permanent manner on each Generator with Welding Set:

- a) The manufacturer's identity;
- b) Model Number;
- c) The words "Property of KPLC".

6.2 Each Generator with Welding Set shall be packed in a manner so as to protect it from damage during transportation and storage.

7. DEMONSTRATION AND DRAWINGS APPROVAL

The successful bidder shall demonstrate to KPLC staff (in Nairobi) the use of the Generator with Welding Set and explain the features that guarantee excellent service. This shall be done at the drawings approval stage.

.....THIS SPACE LEFT BLANK.....

Issued by: Head of Section, Standards Development	Authorized by: Head of Department, Standards
Signed:	Signed:
Date: 2015-02-05	Date: 2015-02-05



TITLE:
**SPECIFICATION FOR
GENERATOR WITH WELDING
SET**

Doc. No.	KP1/3CB/TSP09/082
Issue No.	1
Revision No.	0
Date of Issue	2015-02-05
Page 7 of 7	

ANNEX A:Guaranteed Technical Particulars (to be filled and signed by the Supplier and submitted together with copies of the manufacturer's catalogues, brochures, drawings, technical data, sales records and copies of test certificates for tender evaluation)

Tender No.

Clause number	Bidder's offer (indicate full details of the offered GENERATOR WITH WELDING SET for each requirement of the specification)
Manufacturer & country	
1 Scope	
2 Applicable Standards	
3 Terms & Definitions	
4.1 Service Conditions	
4.2 Design & Construction	
4.2.1	
4.2.2	
4.2.3	
4.2.4	
4.2.5	
4.2.6	
4.2.7	
4.2.8	
5 Tests & Inspection	
5.1	
5.2	
5.3	
5.4	
6 Marking and Packaging	
6.1	
6.2	
7 Demonstration and drawings approval	

.....
Supplier's Name, Signature, Stamp and Date

Issued by: Head of Section, Standards Development	Authorized by: Head of Department, Standards
Signed:	Signed:
Date: 2015-02-05	Date: 2015-02-05

