




SPECIFICATION FOR HEAVY DUTY BLOWER

MAY 1, 2023
KENYA POWER AND LIGHTING CO,LTD
P O BOX 30099

	SPECIFICATION FOR HEAVY DUTY BLOWER	Doc.No.	
		Issue No.	1
		Revision No.	0
		Date of Issue	2022-12-01

FOREWARD

This specification has been prepared by the technical services department of Kenya power and lays down minimum requirements for Portable generator. It is intended for use in the purchase of heavy duty blower

Supplier shall submit information which demonstrates satisfactory service experience of the manufacturer with the products which fall within the scope of this specification.

1 Scope.

- 1.1 This specification is for single phase heavy duty blower with operating voltage range from 220V to 250V AC.
- 1.2 The specification also covers inspection and test of heavy duty blower and guaranteed technical Particulars to be filled, signed by the manufacturer and submitted for tender evaluation.
- 1.3 The specification stipulates the minimum requirements for the blower acceptable for use within KPLC system and it shall be the responsibility of the manufacturer to ensure adequacy of the design, good workmanship and good engineering practice in the manufacture of the heavy duty blower

2 REFERENCES.

The following documents were referred to during the preparation of the specification, in case of conflict, the requirements of this specification shall take precedence.

3 TERMS AND TERMINATIONS.

W: Watts
V: Voltage
KG: Kilogram
AC: Alternating current

4 REQUIREMENTS.

4.1 Service conditions

The portable generator shall be used under the following environmental conditions.


Operating temperature range -1°C to 40°C with average temperature of 30°C.

Humidity: Upto 95%

Altitude: 2200m asl

4.2 The Heavy duty blower.

Issued by: E/Plant Engineer, Nairobi Region	Authorized by: Head of Section E/Plant, Nairobi Region
Signed: 	Signed: 
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- 4.2.1 The heavy duty blower shall be suitable for the blowing of protection and control panels, ac and dc distribution boards, 11kV switch boards, Chargers, inverters, CB control boxes and transformer marshalling kiosks.
- 4.2.2 The heavy duty blower shall be single phase, 220-240V AC voltage, 50HZ.
- 4.2.3 The blower shall have a rated input power of between 800-850W.
- 4.2.4 The Blower shall have the volumetric flow rate of between 4.2m³/min-4.7m³/min
- 4.2.5 The blower weight shall not be more than 1.9kgs.
- 4.2.6 The blower no load speed shall not be less than 15000rpm but not more than 17,000rpm
- 4.2.7 The blower shall have a dust bag and a nozzle.

ANNEXES

A1. The bidder shall indicate the delivery time of the blower and manufacturers experience in the production of the blowers.

B TESTS AND INSPECTION.

B1. The blower shall be inspected and tested in accordance to the relevant standards. It shall be the responsibility of the supplier to perform or to have performed all the tests required to prove the correct operation of the blower.

B2. On receipt of the blower, KPLC shall undertake a comprehensive inspection of the blower in order to verify compliance with the specification. The equipment stands rejected if any of the requirement is not met and the supplier shall be asked to supply a blower.


C MARKING AND PARKING.

C1. MARKING

The following information shall be legibly and indelibly marked on generator by molding screen printing process.

- a Serial Number
- b Manufacturer
- c Type and Model
- d Power capacity
- e Input voltage

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D Documentations.

D1. The bidder shall submit its tender complete with technical documents required by annex A (Guaranteed technical particulars) for evaluation. The technical documents to be submitted (all in English) for tender evaluation shall include the following.

- Guaranteed technical particulars signed and stamped by the Supplier.
- Manufacturers catalogues, brochures and technical data sheets for blower and accessories.

5 GUARANTEED TECHNICAL PARTICULAR.

Clause Number	KPLC requirement		Bidders offer
Manufacturers name and address	Specify		
Country of manufacture	Specify		
Bidders name and address	Specify		
Scope			
1.1-1.3	Specify		
2 Applicable standards	Specify		
3 Terms and definition	Specify		
4 Requirements			
4.1 Service condition	Minimum temperature	State	
	Maximum temperature	state	
	Average temperature	state	
	Humidity	state	
	Altitude	state	
4.2 Heavy duty blower requirements			
4.2.1 Applications	State		
4.2.2 Normal supply voltage range and frequency	state		
4.2.3 Rated input power	state		
4.2.4 Air Flow rate	State		
4.2.5 Blower weight	state		
4.2.6 No load speed	State		
4.2.7 Blower accessories	state		
A			

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A1 Delivery time, manufacturers' experience.	State		
B Test and inspection			
B1 Inspection and testing	State		
B2 Inspection at KPLCs stores	State		
A. PARKING AND MARKING			
C1 Marking	State		
D DOCUMENTATION			
D1 List of required documents for evaluation	State		

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