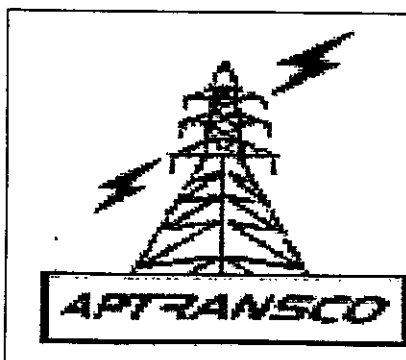




RTU & SILENT DG SET-SELECTION CHART

JAKSON GENSET MODEL	KVA	KW	CURRENT AMP.	KOEL ENGINE MODEL	ENGINE BHP	FUEL Ltr/Hr AT 75% LOAD	SUMP CAPACITY Lbs	FUEL TANK Lbs	BATTERY No x Ah	LENGTH mm	WIDTH mm	HEIGHT mm	WEIGHT mm (Approx)	EXHAUST EXTENSION PIPE DIA Inch	CABLE 3.5 Alum sq.mm
AIR COOLED															
KG5AS	5	4	7	EA10	10	3.00	3.5	65	1x88	1600	820	1530	1000	2.5	10
KG10AS	10	8	14	EA16	16	3.36	4.5	65	1x88	2070	820	1540	1000	2.5	10
KG15AS	15	12	20.9	HA294	19	3.07	4.5	65	1x88	1770	1050	1550	1150	2.5	10
KG20AS	20	16	27.8	HA394	32	3.82	8	65	1x88	2030	1050	1550	1300	2.5	16
KG25AS	25	20	34.8	HA394	32	4.70	8	65	1x88	2030	1050	1550	1300	3	16
KG30AS	30	24	41.7	HA494	43	5.40	11	80	1x100	3130	1100	1680	1500	3	25
KG35AS	35	28	48.7	HA494	43	6.30	11	80	1x100	3130	1100	1680	1500	3	25
KG40AS	40	32	55.6	HA494TC	56	7.08	11	80	1x100	3220	1100	1680	1550	4	25
KG45AS	45	36	62.5	HA494TC	56	7.50	11	80	1x100	3220	1100	1680	1650	4	25
KG50AS	50	40	69.5	HA694	65	9.74	13.5	120	1x120	3980	1240	1680	1800	4	35
KG55AS	55	50	85.9	HA694TC	83	11.18	13.5	120	1x120	3980	1240	1680	1850	4	50
KG70AS	70	56	97.3	HA694TC	83	12.50	13.5	120	1x120	3980	1240	1680	1955	4	70
LIQUID COOLED															
KG20WS	20	16	27.8	RB22	25	4.01	4.5	65	1x88	2050	950	1210	1300	2.5	10
KG20WS	20	16	27.8	2R1040	28	4.01	4.5	65	1x88	2150	1190	1350	1300	2.5	10
KG25WS	25	20	34.8	RB33	40	4.81	7.6	65	1x88	2350	950	1210	1300	3	16
KG30WS	30	24	41.7	RB33	40	5.67	7.6	65	1x88	2360	950	1210	1300	3	16
KG35WS	35	28	49.0	3R1040	42	6.50	8.5	85	1x88	2540	1190	1350	1300	3	25
KG40WS	40	32	55.6	4R1040	56	7.56	9.5	150	1x100	3350	1190	1650	1500	3	25
KG45WS	45	36	63.0	4R1040	56	8.00	9.5	150	1x100	3350	1190	1650	1500	3	25
KG50WS	50	40	69.5	4R1190	82	9.05	9.5	150	1x100	3350	1190	1650	1500	3	30
KG63WS	63	50	86.9	4R1040T	83	11.22	9.5	150	1x100	3240	1140	1585	1500	3	50
KG70WS	70	56	97.3	4R1040T	83	11.60	9.5	150	1x100	3240	1140	1585	1500	4	70
KG75WS	75	60	104.3	4R1040TA	105	12.72	9.5	200	1X135	3240	1140	1585	1950	4	70
KG82.5WS	82.5	66	114.7	4R1040TA	105	14.00	9.5	200	1x135	3585	1350	2270	1950	4	70
KG100WS	100	80	139.0	6R1080T	127	18.09	13.5	250	1x135	4000	1700	2600	2500	4	70
KG125WS	125	100	173.3	6R1080TA	154	21.43	13.5	250	1x135	4000	1700	2600	2700	4	95
KG140WS	140	112	194.6	6K1080TA	175	24.11	23.5	350	2x135	4350	1850	2725	3750	4	150
KG160WS	160	128	222.4	6SL9088TA	198	27.24	28.5	360	2x135	4350	1850	2725	3750	5	185
KG180WS	180	144	250.2	6SL1500TA	235	30.78	23.5	450	2x135	4945	1780	2830	3950	5	300
KG200WS	200	160	278.0	6SL1500TA	254	35.53	23.5	450	2x135	4945	1780	2830	3950	5	300
KG250WS	250	200	347.5	6SL8800TA	310	40.53	23.5	450	2x180	4945	1780	2830	4100	6	2x150
KG320WS	320	256	444.8	6K12TA	390	51.08	25	450	2x180	5705	2000	3265	4100	6	2x240
KG400WS	400	320	556.0	DV8	490	61.10	41	990	2x180	5700	2000	3250	6600	6x2	2x300
KG500WS	500	400	685.0	DV10	608	78.28	45	990	2x180	6200	2000	3250	6850	6x2	3x240
KG600WS	600	480	834.0	DV12	723	91.90	50	990	2x180	6670	2000	3500	7500	6x2	3x400
KG825WS	825	500	869.0	DV12SR1	750	96	50	990	2x180	6670	2000	3500	7900	6x2	3x400

* Product innovation is a continuous process, hence data given is subject to change without notice.
JAKSON GENERATORS PVT LTD.



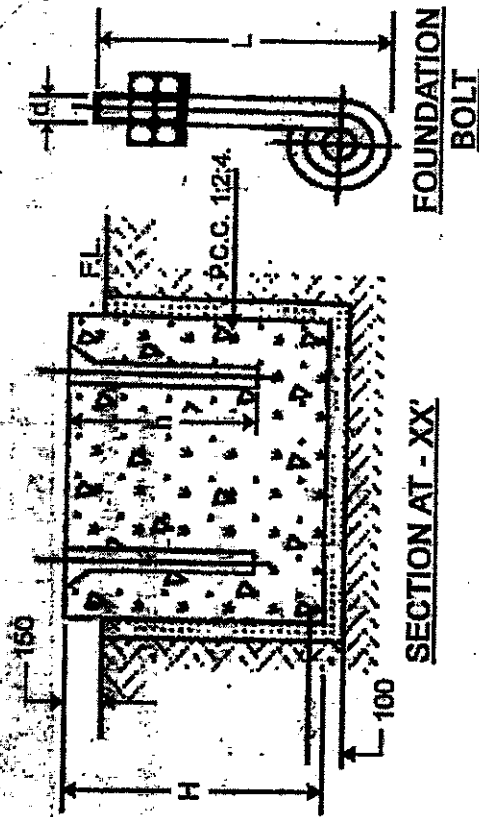
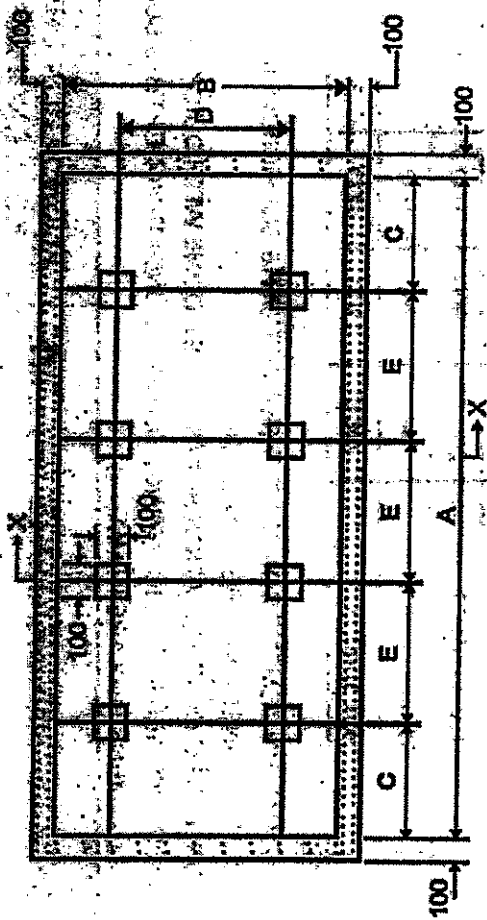
Standardised Guaranteed Technical Particulars for Diesel Generator Set

STD/GTP-DWG/Approval No. 222 / Revision Mo. 0

Prepared & Approved during October - 2011

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[Signature]
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S.No	ENGINE	NO. OF BOLTS	50 - 75	2500	1000	500	540	500	900	400	18	300	B	8
			75 - 82.5	2800	600	500	475	600	900	400	18	300	B	8
			100 - 110	3100	1000	500	700	700	900	400	18	300	B	8
			125 - 200	3200	1000	700	760	600	900	400	18	300	B	8

NOTES:

- 1:2:4 PLAIN CEMENT CONCRETE FOUNDATION IS SUFFICIENT. IF CUSTOMER DESIRES REINFORCEMENT CIVIL ENGINEER MAY BE CONSULTED.
- GROUTING OF FOUNDATION BOLTS MAY BE DONE WITH QUICK SETTING CEMENT STONE DUST AND SMALL SIZE GRAVEL.
- FOR ANTIVIBRATION MOUNTINGS 300MM FOUNDATION DEPTH IS SUFFICIENT AS PER DUNLOP RECOMMENDATIONS. (See Page No. 10)
- ALL DIMENSIONS ARE IN MM.

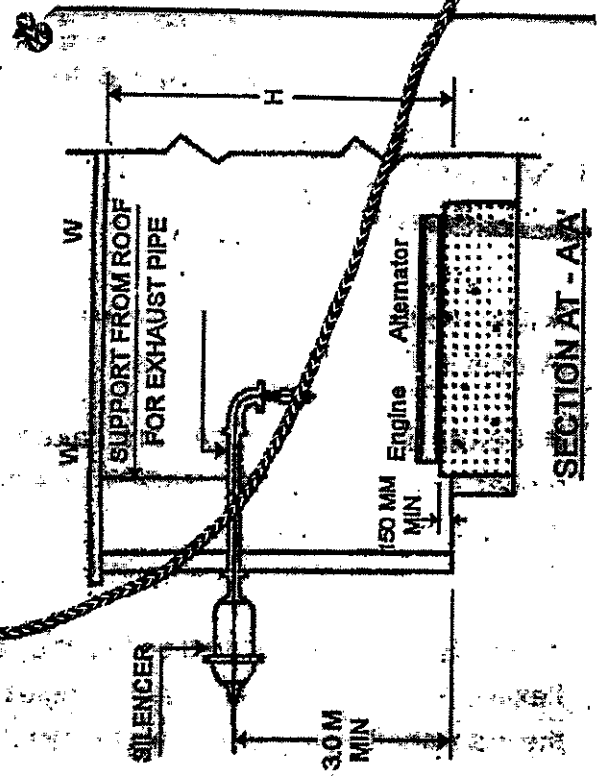
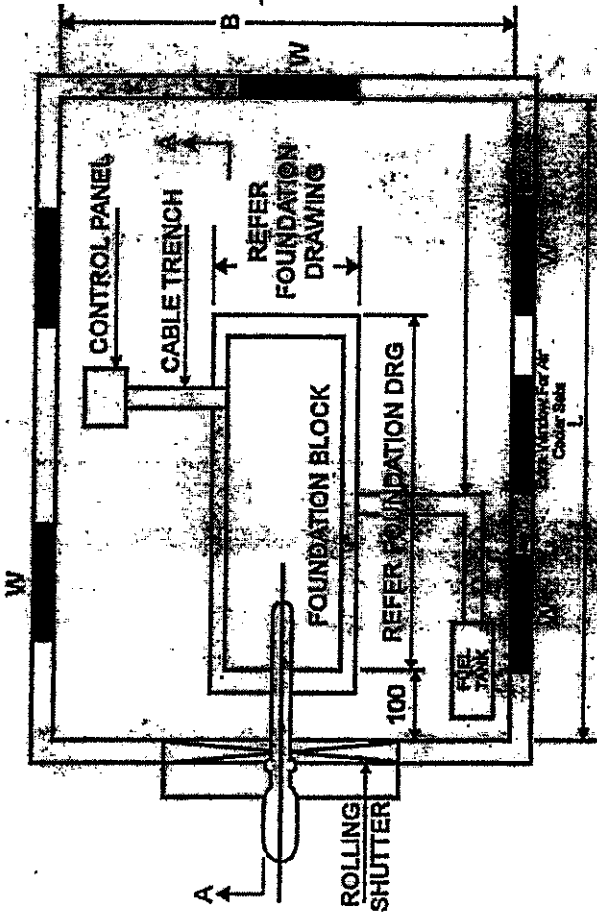


Standardised Drawing for Diesel Generator Set
 STD/GTP-DWG/Approval No. 292 / Revision Mo. 0
 Prepared & Approved during October - 2011

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 A TRANSCO/MDYUTH SOUDHA/HYD.

W=1.3 X 1.5 M AT A HEIGHT OF 0.6M



Standardised Drawing for Diesel Generator Set
 STD/GTP-DWG/Approval No. 292 / Revision Mo. 0
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1. SILENCER MAY BE FIXED VERTICAL IF DESIRED.
2. IF REQD. TOWER CAN BE PLACED NEAR ENGINE. NO TRENCHING IS THEN REQD.
3. ROOM SETBACK SHOULD NOT BE SMALLER THAN SPECIFIED.
4. ALL DIMENSIONS ARE IN MM.
5. IN CASE OF TWO OR MORE SETS ARE KEPT IN A ROOM THE DISTANCE BETWEEN FOUNDATION SHOULD BE 1.25 M.

1	5000	4000	3000	150
2	6100	4600	3600	150
3	6000	4600	3600	150

JAKSON GENERATORS (P) LTD. BANGALORE

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 27/10/2011



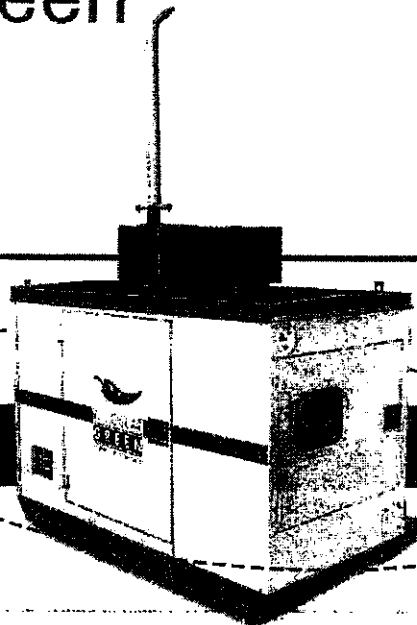
Enriching Lives

"Kirloskar Green" Gensets

HA Series

Single & Three Phase
Air Cooled Silent Genset

Range 15 to 70 kVA



Salient Genset Features

■ **Customized product range :**

- Ready to use gensets, available in wide range from 15 to 70kVA.
- Gensets powered with Air Cooled engines.
- DG Sets available in Multiple sets in synchronization for running parallel operations.
- Custom built tailored to meet your exact power needs.

■ **Smart Aesthetics :**

- State of the Art Design.
- Compact in size, smaller footprint saving money on space.
- Aesthetically superior, fully integrated weather proof acoustic enclosure.
- Light weight design.

■ **Environment Friendly :** The power to save environment and the earth. :

- Gensets conform to low noise emission norms as per CPCB.
- Engine complies with latest stringent international emission norms.

■ **Highest Reliability :**

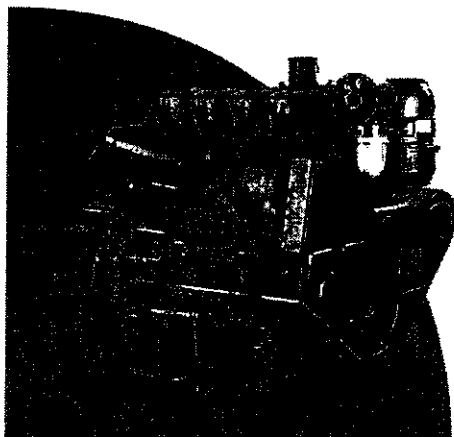
- Utmost reliability ensuring continuous power for smooth operation.
- Electronic Governor for Isochronous governing & paralleling operations as optional.
- Extremely rugged, durable design.
- Low lifecycle costs.
- Safety for low lube oil, high water temperature, low fuel level etc.
- State-of-the-art technology for operations in low / high ambient temperature, high humidity and high altitude.

■ **Unmatched Performance :**

- Low fuel & lube oil consumption ensuring excellent economy.
- Low noise & vibration levels.
- High fuel efficiency at part operating load.
- Lowest power to weight ratio in its class.
- No oil top up required between two service.
- K-cool super plus for longer life.

■ **Maintenance friendly design, ease of operation :**

- Ready to use design.
- Easy serviceability for routine maintenance, replacement, overhaul.
- Modular design, ensuring lower maintenance cost.
- Ensures long maintenance intervals.
- Easy availability of spare parts.
- Minimum cost for maintenance, spares & services.
- Smart Genset Monitor Control (GMC) for closely monitoring the engine, genset & safety system.
- Annual maintenance contract through service dealers.
- PAN India single point AMC.



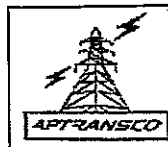
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A TRANSCO/VIDYUT SOUDHA/HYD.

Handwritten signature and date: 21/10/2011



**KIRLOSKAR
GREEN**
POWER IDEAS



Standardised Guaranteed Technical Particulars for
Diesel Generator Set

STD/GTP-DWG/Approval No. 222 / Revision Mo. 0

Prepared & Approved during October - 2011

A Series

"Kirloskar Green" Gensets

Standard Features

■ Engine



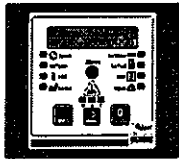
- Air Cooled technology
- Offering a wide comprehensive range with power output covering from 15 to 70 kVA
- Available in 2, 3, 4 and 6 cylinder configuration
- Most compact, extremely robust & rugged design
- 500 Hrs. oil change period
- Lowest fuel consumption in it's class
- Meets latest emission norms

■ Alternator



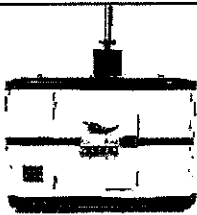
- Kirloskar Green Alternator
- Compact Design
- Best in Class Efficiency
- Positive Voltage built-up
- Special windings to reduce harmonics
- Electronic AVR
- High circuit current capacity upto 300% ensuring controlled regulation even at variable loads
- Epoxy gel coating to suit various environment conditions

■ Control Panel



- State-of-the-art engine & genset monitoring and safety system
- Safety controls for low coolant level in radiator and high canopy temperature
- Compact Microprocessor Controller
- All performance parameters of engine & DG set visible at one sight

■ Canopy




- State-of-the-art Kirloskar Green Design
- Weather proof, sound proof enclosure, meets latest CPCB norms
- The powder-coated enclosure is manufactured on high-tech CNC machines to ensure smart quality finish & life long durability
- Specially designed to operate at full load, even at 50 deg C air inlet temperature
- Insulation material conforms to UL94HF1 class for flammability
- Use of zinc plating with green passivated hardware to withstand salt spray test as per ASTM B-117

Optional Features

- Remote monitoring
- Additional electrical metering
- Auto Mains Failure panel
- Cold starting aid
- Electronic Governor
- Parallel operations for Genset
- 24V ES in lieu of 12V
- Special air filtration system for dusty atmosphere
- Facility for external agency inspection
- Single phase upto 30 kVA available
- Bio diesel operations & many more

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A. TRANSCO, MIDYUT.1 SOUDHA/HYD.



Standardised Guaranteed Technical Particulars for
Diesel Generator Set

STD/GTP-DWG/Approval No. 212 / Revision Mo. 0

Prepared & Approved during October - 2011

Technical Data

Overall Specifications of HA Series Genset

Range 15 to 70 kVA

DG Set Specifications

Parameters	Unit	Genset Model						
		KG15AS1-C	KG25AS-C	KG30AS	KG35AS	KG45AS	KG55AS	KG70AS
kVA (kW) rating at 0.8pf	kVA (kW)	15 (12)	25 (20)	30 (24)	35 (28)	45 (36)	55 (44)	70 (56)
Voltage	V	415	415	415	415	415	415	415
Frequency	Hz	50	50	50	50	50	50	50
Overall dimensions with canopy	mm (LxBxH)	1770x1050x1550	2030x1050x1550	3130x1100x1680	3130x1100x1680	3220x1100x1680	3980x1240x1680	3980x1240x1680
Dry weight of genset with canopy	kg	900	1030	1440	1440	1580	1870	1920
Electrical starting system		12	12	12	12	12	12	12
Battery capacity	Ah	88	88	100	100	100	120	120
DG set noise level as per CPCB norms	dB(A)	<75	<75	<75	<75	<75	<75	<75

Engine Specifications

Parameters	Unit	Engine Model						
		HA294 SR2	HA394	HA494	HA494	HA494T	HA694	HA694T
Rated output (prime continuous rating) as per ISO 3046	kW (hp)	15.09 (20.5)	23.52 (32)	31.6 (43)	31.6 (43)	41.16 (56)	47.77 (65)	61 (83)
No of Cylinders	No's	2	3	4	4	4	6	6
Bore x Stroke	mm	100 x 120	100 x 120	100 x 120	100 x 120	100 x 120	100 x 120	100 x 120
Aspiration	NA/T/TA	NA	NA	NA	NA	T	NA	T
Governing		Class A2	Class A2	Class A2	Class A2	Class A2	Class A2	Class A2
Break mean effective pressure	kg/cm ²	6.5	6.8	6.8	6.8	8.9	6.9	8.8
* SFC at 75 % load	gms/hp-hr	168	170	159	159	166	161	169
* SFC at 100 % load	gms/hp-hr	172	174	163	163	166	161	165.5
Lube oil consumption	Ltrs/hr	< 0.3 % of SFC	< 0.3 % of SFC	< 0.3 % of SFC	< 0.3 % of SFC	< 0.3 % of SFC	< 0.3 % of SFC	< 0.3 % of SFC
Lube oil change period	Hrs	500	500	500	500	500	500	500
Lube oil sump capacity	Ltrs	4.5	8	11	11	11	13.5	13.5

Alternator Specifications

Parameter	Unit	Alternator Model						
		KG 164J	KG 184B	KG 184C	KG 184D	KG 204C	KG 204E	KG 224B
Specifications		15 kVA	25 kVA	30 kVA	35 kVA	45 kVA	55 kVA	70 kVA
Insulation Class		H	H	H	H	H	H	H
Time permitted to build up rated voltage at rated RPM	Sec	<5	<5	<5	<5	<5	<5	<5
Permissible voltage dip @ Full load 0.8pf lag	%	<18	<18	<18	<18	<18	<18	<18
Alternator efficiency at 100% load	%	83.5	88.8	89.0	89.1	89.0	89.9	91.2
Alternator efficiency at 75% load	%	84.9	89.8	90.5	90.7	90.4	91.1	92.5

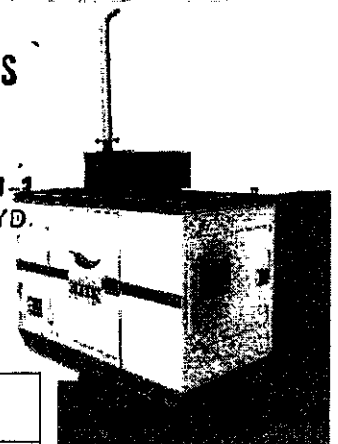
In view of continuous product updation and design changes, all above specifications and dimensions are subject to change without prior notice.

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Notes :

- Genset ratings are as per ISO 8528 performance class G2.
- Prime Power Rating is the maximum power available continuously for a variable electrical load for unlimited number of hours per year under standard operating conditions.
- Single phase genset option available up to 30 kVA.
- For the site conditions other than standard operating conditions, consult KOEL for available prime power.
- Specific gravity of diesel to be considered as 0.845 (+5 % tolerance as per ISO 3046).
- All canopy dimensions have tolerance of + 50 mm.
- Under standard test conditions (+5% tolerance).



	Standardised Guaranteed Technical Particulars for
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