

Kirloskar Green Generating Set Specifications Control System Features and Safeties

Controller Module	DSE4522 A2	DSE7320MKII
kVA	15 - 160 kVA	200 - 1010 kVA
On display screen		
Generating set Volts, Amps, Hz	✓	✓
Generating set kW, kVA, kVAR	✓	✓
Generating set per phase PF	✓	✓
Generating set kWhr meter	✓	✓
Earth current (A)	No	✓
Grid (Mains) Voltage (L-L)	✓	✓
Battery Voltage (V)	✓	✓
Engine start attempts	No	✓
Engine Temperature (°C)	✓	✓
Engine speed (RPM)	✓	✓
Engine Run Hours (Hours & Min.)	✓	✓
Lube oil Pressure (kPa, PSI, bar)	✓	✓
Diesel fuel level (%)	✓	✓
Communication ports		
RS485	No	✓
RS232	No	✓

✓ - Available No - Not available ---- - Not applicable WR - Warning SD- Shutdown Ind - Indication DI - Digital Input

Controller Module	DSE4522 A2				DSE7320MKII			
	WR	SD	Ind	DI	WR	SD	Ind	DI
Protections								
Low oil pressure	No	✓	✓	----	✓	✓	✓	----
High coolant temperature	✓	✓	✓	----	✓	✓	✓	----
Low fuel level	✓	✓	✓	----	✓	No	✓	----
Low coolant level	No	✓	✓	----	No	✓	✓	----
Under / over speed	✓	✓	✓	----	✓	✓	✓	----
Low / high battery voltage	✓	No	✓	----	✓	No	✓	----
Low charge alternator	✓	No	✓	----	✓	No	✓	----
Emergency stop	No	✓	✓	----	No	✓	✓	----
Fail to start/ stop warning	✓	No	✓	----	✓	No	✓	----
Auto remote start/stop DI	----	----	----	✓	----	----	----	✓
Under / over voltage	✓	✓	✓	----	✓	✓	✓	----
Under / over frequency	✓	✓	✓	----	✓	✓	✓	----
Over kW / Overcurrent	No	✓	✓	----	No	✓	✓	----
Low load	No	No	No	----	✓	✓	✓	----
Incorrect phase sequence	No	No	No	No	No	✓	✓	----
Reverse power	No	No	No	No	No	✓	✓	----
Short circuit	No	No	No	No	No	✓	✓	----
Earth fault	No	No	No	No	No	✓	✓	----

✓ - Available No - Not available ---- - Not applicable WR - Warning SD- Shutdown Ind - Indication DI - Digital Input



Global Solution Provider



IOT enabled Genset

The Complete Power Back-up Solution

EFFICIENCY HAS A NEW NAME

**Kirloskar
GREEN**

Lucid Engineering Solution



Flat: 9-B, Wing:1, Rahman Lucid Tower, 19/3, Kakrail, Dhaka-1000

+88 09617 525252, +88 01610 525252, info@les.com.bd www.les.com.bd

RELIABLE PARTNER FOR CONSTRUCTION & INDUSTRIAL SOLUTION

PARAMETERS		UNIT	5 to 1010kVA																	
Prime Rating at 0.8 pf	kVA		5	10	15	20	30	40	62.5	82.5	125	160	200	250	320	400	500	625	750	1010
	kW		4	8	12	16	24	32	50	66	100	128	160	200	256	320	400	500	600	808
Voltage	V		415	415	415	415	415	415	415	415	415	415	415	415	415	415	415	415	415	415
Frequency	Hz		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Overall Dimensions with canopy [^]	Length	mm	1310	1760	1740	2205	2500	2750	2900	3200	3200	4000	4340	4340	5700	5700	6200	6660	6800	7800
	Width	mm	810	820	1050	950	950	1050	1100	1100	1300	1500	1740	1740	2000	2000	2000	2000	2300	2300
	Height	mm	1330	1330	1474	1294	1294	1493	1581	1595	1795	1915	1970	1975	2555	2555	2555	2705	2713	2713
Dry Weight of genset with canopy [^]	Kg		670	750	810	880	1040	1180	1470	1710	2090	2730	3900	4010	5200	6000	6655	7500	8300	13200
Electrical starting System	Volts-DC		12	12	12	12	12	12	12	12	12	12	24	24	24	24	24	24	24	24
Battery Capacity	Ah		1x65	1x65	1x88	1x88	1x88	1x100	1x100	1x100	1x120	1x150	2x150	2x150	2x180	2x180	2x180	2x180	2x180	4x180
DG set Noise Level as per CPCB Nomrs	dBA		<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75

ENGINE SPECIFICATIONS

Parameters		Engine Model Unit	EA10G1	EA16G1	HA294 SRIII	2R1040	3R1040	4R1040	4R1040T	4R1040TA	4 K1080TA1	6K1080TA	6SL1500TASR2	6SL8800TA	DV8 SR1	DV8	DV10	DV12 SR1	DV12ETA	DV16ETA
Rated output (Prime Continuous rating as per ISO 3046)	kW		7.3	11.8	15.09	19.8	30.9	41.2	61	77.2	114.7	147.2	184	228	294	360	448	552	663	889
	HP		10	16	20.5	27	42	56	83	105	156	200	250	310	400	490	608	750	901	1210
No. of cylinder	Number		1	2	2	2	3	4	4	4	4	6	6	6	8	8	10	12	12	16
Bore x Stroke	mm		102x116	95x110	100x120	105 x 120	105 x 120	105x120	105x120	105 x 120	105x125	105x125	118 x 135	118 x 135	130x150	130x150	130x150	130x150	130x150	130x150
Aspiration			NA	NA	NA	NA	NA	NA	T	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA
Governing class			G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2
Fuel Consumption	At 100% Load	Ltrs/Hr	1.6	3	4.27	5.33	7.69	9.76	14.6	18.33	26.76	34	42.3	55.12	69.59	82.92	102.89	126.92	154	199
	At 75% Load		1.3	2.4	3.29	4.08	5.82	7.45	11.1	13.84	20.74	25	31.94	42.22	52.90	62.63	77.17	95.86	126.4	155
Lub oil Sump Capacity	Ltrs		3.5	6.5	4.5	5.5	6	10	10	10	14	18	27	27	44	44	50	53	81	150
Engine Coolant Capacity	Ltrs		NA	NA	NA	4	4.7	6	6	6	7.5	10	13	13	29	29	6	44	175	180
Fuel tank capacity	Ltrs		50	50	50	65	65	100	150	150	230	300	460	460	850	850	990	990	990	990

ALTERNATORS SPECIFICATIONS

Parameters		Alternator Model Unit	KG40 C0	KG40 C2	KG40 E	KG40 H	KG28 VL4A	KG32 3S4B	KG423 K	KG44.3 B2	KG443 D	KG44.3 H	KG38 1S4A	KG38 M4A	KG38 2.5L4A	KG47.2 VS3	KG47.2 M7	KG47 E1	KG49.1 M75	KG49.1 L11
Rating	KVA		5	10	15	20	30	40	62.5	82.5	125	160	200	250	320	400	500	625	750	1010
Insulation Class			H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
Ingress Protection			IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23
Time to build up rated voltage at rated RPM	sec		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Alternator Efficiency at 100% load	%		80.5	81.3	83.5	87.1	89	89.2	91	91.4	92.6	92.8	93.5	93.6	93.8	94.1	94.8	95.5	94.6	95.1
Alternator Efficiency at 75 % load	%		81.1	82.1	84.9	88.5	90.5	90.8	91.8	92.5	93.2	93.3	93.9	93.9	94.3	94.7	95.3	96	94.9	95.4
Voltage Regulation	%		±1	±1	±1	±1	±1	±1	±1	±	±1	±1	±1	±1	±0.5	±0.5	±0.5	±0.5	±0.5	±0.5
Permissible transient voltage dip at full load 0.8 pf lag	%		<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20



Global Solution Provider
WIDEST RANGE OF GENSET



- * Specific gravity of diesel to be considered as 0.845 and for petrol 0.775 for LPH calculations (+5% tolerance on LPH) for well run engines only.
- [^] All canopy dimensions have tolerance of ± 50 mm.
- [^] Width of genset considered without base plate lifting hook.
- [^] Genset weight tolerance +50 Kg.

- In the view of continuous product updation and design changes, all above specifications & dimensions are subject to change without prior notice.
- 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.
- Genset ratings are as per ISO 8528.
- For the site conditions other than standard operating conditions, consult Kirloskar Oil Engines Ltd. for available prime power.
- All genset ratings are CPCB compliant.