Celebrating 25000 HHP GENSETS

KOEL GREEN GENSET - SPECIFICATIONS

GENSET DATA										
GENSET MODEL	**UNIT**	**KG1-200WS**	**KG1-250WS**	**KG1-320WS**	**KG1-380WS**	**KG1-400WS**	**KG1-500WS**	**KG1-600WS**	**KG1-625WS**	**KG1-750WS**
kVA RATING	kVA	**200**	**250**	**320**	**380**	**400**	**500**	**600**	**625**	**750**
kW Rating	kW	160	200	256	304	320	400	480	500	600
Voltage	V	415	415	415	415	415	415	415	415	415
Frequency	Hz	50	50	50	50	50	50	50	50	50
Phase		3Ø	3Ø	3Ø	3Ø	3Ø	3Ø	3Ø	3Ø	3Ø
Power factor	lagging	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Rated speed	RPM	1500	1500	1500	1500	1500	1500	1500	1500	1500
Method of Starting		Electric (24 V)								
Alternator efficiency at 75% load	%	93.8	93.9	94.3	94.4	94.7	95.3	95.8	96	94.9
DG set Noise level at 1Mtr	dBA	≤ 75 dBA @ 1Mtr (Genset with canopy)								
Overall thermal efficiency of engines/break thermal efficiency of engines at 100% load	%	41	40.41	42	42.86	43	44	42.86	42.86	41
Mechanical efficiency at 100% load	%	94	95	86	88	89	90	88	88	92.6
OVERALL DIMENSIONS										
Length	mm	4340	4340	5100	5375	5375	5650	6660	6660	6800
Width	mm	1740	1740	2000	2000	2000	2000	2000	2000	2300
Height	mm	1970	1975	2408	2408	2408	2558	2710	2710	2713
Height including silencer	mm	2609	2615	2908	2943	2943	3177	3420	3420	3380
Approx. Dry Weight (with canopy)	Kg	3900	4100	5910	6000	6050	7200	7700	7800	8300
CONSUMPTION										
*Fuel consumption at 100% load	Ltr/Hr	45.9	56.9	69.0	83.3	86.9	107.5	125.9	130.5	154.0
*Fuel consumption at 75% load	Ltr/Hr	34.4	42.6	52.5	61.2	65.1	81.9	94.2	98.6	126.4
*Fuel consumption at 50% load	Ltr/Hr	25.2	29.9	37.6	44.1	46	57.1	63.8	66.2	89.7
Fuel Tank capacity	Ltrs.	460	460	850	850	850	990	990	990	990
Lube Oil consumption	g/Hr	117	150	80	93	98	118	140	145	165
**Lube Oil change period	Hrs	500	500	500	500	500	500	500	500	500
RADIATOR COOLED										
Qty of coolant (Engine)	Ltr	14	14	29	29	29	36	44	44	44
Qty of coolant (Radiator)	Ltr	12.95	14.7	20	75	75	75	90	90	90
Total qty of coolant (including piping)	Ltr	29.26	31.83	55	115	115	120	145	145	145
Cooling / Ventilation Air flow through canopy	m3/min	325	417	762	790	790	1120	1300	1300	1300
Combustion Air inlet flow	m3/min	16.1	20	25.5	28.5	30	38.5	42.5	44	50
Total Fresh Air required	m3/min	341.1	437	787.5	818.5	820	1158.5	1342.5	1344	1344
Operating Temperature range of the Thermostat	Deg C	74-84	74-84	74-88	74-88	74-88	74-88	74-88	74-88	74-88
Maximum Coolant temp allowed	Deg C	95	95	104	104	104	104	104	104	104

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kVA RATING	kVA	**200**	**250**	**320**	**380**	**400**	**500**	**600**	**625**	**750**
HEAT REJECTION DETAILS										
Heat Rejection to coolant	kW	117	165	209.4	247	260	293.1	335	347.5	450
Heat Rejection to CAC (At sea level and 25^{0}C ambient temp.)	kW	37.1	46.7	46.44	58.6	61.7	92.7	105.7	110.1	164
Heat Rejection to Exhaust	kW	129	166	240	277	291.6	328.1	391.6	409.6	490
Heat Rejection from Engine Surface	kW	33	37	44	45.3	47.7	99.6	113.5	124.9	130
AIR INTAKE SYSTEM										
Intake Filter type		Dry								
Dirty Element restriction	mm of H_2O	200	200	635	635	635	635	635	635	635
Intake manifold pressure	bar	2.89	3.3	2.94	2.94	2.94	2.94	3.10	3.10	3.20
Maximum Intake manifold temperature (at Altitude 1000m & at temp 45^0	Deg C	50	50	50	50	50	74	75	75	75
EXHAUST SYSTEM										
Exhaust silencer type		Residential								
Max. Permissible exhaust back pressure	mm Hg	50±5								80±5
Exhaust gas flow	kg/hr	1144	1313	1970	2236	2354	2736	3304	3421	3707
Exhaust gas temperature (Max)	Deg C	500 ± 50								550 ± 50
Exhaust Smoke level at 100% load (at NTP condition)	FSN	17	15	2						1
Min exhaust gas pipe size (per bank) (diameter)	mm	106						127		150
CONTROLS DATA										
Communications										CAN
Digital inputs		9 digital i/p								6 digital i/p
Digital outputs		7 digital o/p								2 digital i/p
Customer data link (Modbus RTU)		Yes								USB
Emergency Stop pushbutton		Externally Connected								
Compatible with the following										
Digital I/o module		Yes, Expansion								
Local annunciator		Yes								