TECHNICAL PARTICULARS OF KIRLOSKAR ELECTRIC BLISS DG SETS - FREEDOM SERIES

	1.4-1-1		APPLICATION AND A	49 51/ 71/10/10/10/5				THE CHILDREN	T m no consumer		way receive
DG SET	Model RATING (kVA)	12.5% 2KFVVW 105	15K-2KF//WHID5	17.5K-3KFI/0M 1025	20 k 3 k F W W 10.5	22.5K-3KFV/WH05	24K3KFWW105	25K-+KFI/0#105	27.5%+KFWW 105 27.5	30K-4KF (VM 105	34K-4KFI/M 105
	Rated KW	10	12	14	16	18	19.2	20	22	24	27.2
	Rated Current (Amps)	17.40	20.88	2436	27.84	31.32	33.41	34.80	38.28	41.76	47.328
	Length x Width x Height (mm)	1800/900x1425	1200x900x1425	2125/95001500	2125X560X4500	2125/950/1500	2125/950X1500	2250×1050×1500	2290x0090x1900	ZZ40X1050X1500	ZS0X1050X1500
	Total Dry Weight (Kgs)	900	900	1090	1090	1090	1090	1350	1350	1350	1350
	Make	Kirloskar Bectric	Kirloskar Bectric	Kirloskar Bectric	Kirloskar Bectric	Kirloskar Bectric	Kirloskar Bectric		Kirloskar Bectric	Kirloskar Bectric	Kirloskar Bectri
	Model	2KFWN105	2KFWN105	3KFW/N105	3KFW/N105	3KFWN105	3KFWN105	4KF00N105	4KFW/N105	4KF00N105	4KFW/N105
	BHP	23	23	31	31	31	31	44	44	44	44
	No. of Cylinders	2	2	3	3	3	3	4	4	4	4
	RPM	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
	Bore(mm)	105	105	105	105	105	105	105	105	105	105
	Stroke(mm)	117	117	117	117	117	117	117	117	117	117
	Displacement(trs)	2.03	2.03	3.04	304	3.04	304	405	4.05	405	405
	Compression ratio	17:1± 0.5	17:1± 0.5	17:1± 0.5	17:1± 0.5	17:1± 0.5	17:1± 0.5	17:1± 0.5	17:1± 0.5	17:1±0.5	17:1± 0.5
ENGINE	SFC (gms/BHP-hr)	156 +5 %	156 +5 %	156 +5 %	156 +5 %	156 +5 %	156 +5 %	156 +5 %	156 +5 %	156 +5 %	156 +5 %
	Governor	Mech	Mech	Mech	Mech	Mech	Mech	Mech	Mech	Mech	Mech
	Class of Governing	A	A	A	A	A	A	A	A	A	A
	Aspiration	NATURAL	NATURAL	NATURAL	NATURAL	NATURAL	NATURAL	NATURAL	NATURAL	NATURAL	NATURAL
	Arfiter	Drytype	Drytype	Drytype	Drytype	Drytype	Dry type	Drytype	Drytype	Drytype	Drytype
	Fuel	HSD	HSD	HSD	HSD	HSD	HSD	HSD	HSD	HSD	HSD
	Type of all	201///40	20\\\\\\\40	200//40	201///40	20\0\/40	201///40	201///40	20\00/40	201/1/40	201/0/40
	Oil sump capacity(trs)	9	9	12	12	12	12	14	14	14	14
	Lub Oil consumption (gms/BHP-hr)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
	Cooling	Liquid Force Cooling									
	Bare Radiator Coolant capacity(ltrs)	3	3	3	3	3	3	13	13	13	13
	Coolant Capacity with engine Jacket(ftrs)	6.50	6.50	8.50	8.50	8.50	8.50	13	13	13	13
	Engine Dry Weight (Kgs)	235	235	290	290	290	290	350	350	350	350
	Bectric Starting System	12V	12V	12V	12V	12V	12V	12V	12V	12V	12V
ALTERNATOR	Make	KEC	KEC	KEC	KEC	KBC	KEC	KEC	KEC	KEC	KEC
	Model	4AB160	4AB160	4AB160	4AB160	4AB160	4AB180	4AB 180	4AB 180	4AB 180	4AB 180
	Туре	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless
	KVA	12.5	15	17.5	20	22.5	24	25	27.5	30	35
	Voltage (V)	415	415	415	415	415	415	415	415	415	415
	No. of Phases	3	3	3	3	3	3	3	3	3	3
	Power Factor	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	Speed (rpm) / Frequency (Hz)	1500 / 50	1500 / 50	1500 /50	1500 / 50	1500 / 50	1500 / 50	1500 / 50	1500 / 50	1500 / 50	1500 / 50
	Voltage Regulation	+41%	+41%	+/-1%	+41%	+4 1%	+/-1%	+/-1%	+/- 1%	+4 1%	+4 1%
	Enclosure	SPDP	SPDP	SPDP	SPDP	SPDP	SPDP	SPDP	SPDP	SPDP	SPDP
	hsulation dass	H	Н	Н	H	Н	Н	H	H	Н	Н —
	Weight of ACG(Kgs)	150	150	162	162	162	180	180	210	210	260
CONTROL PANEL	Туре	Ready To Use / Inbuilt									
	Metering	Multidisplay meter cum kW limiter for display of Volts, Amps , Hz , RPM , Hour , KW , KWH									
	Gauges	Fuel Level Indicator, Lub Oil Pressure, Water Temperature, Oil Temperature									
	Functions	Manual Start/Stop, Ernergency Stop, Display Selection, Fault Reset									
	Operator Interface	Short Circuit, Over load, MCCB with shunt coil for power ckt(above 22.5 kVA), MCBs for control circuit, Low Lub Oil Pressure, High Coolant Temperature, Auto Shut Down, Msual & Audio Alarm against Fault.									
	Safeties										
BATTERY	Make	Exide Exide Exide Exide Exide Exide Exide Exide Exide									
	Туре	(6					NCE FREE	100			
	Rating (AH)	100	100	100	100	100	100	100	100	100	100
	Quantity(Nos.)										
	Charging Facility	Charging Atternator									
	Battery metering	Ammeter									
EXHAUST SYSTEM	Silencertype	Residential									
	Location					T	OP	1000			
	Exhaust pipe size(inches)	2.5	2.5	2.5	2.5	2.5	2.5	3	3	3	3
Parket Stranger	Туре	2.0	4.17		2.0		VILT	0.000			3133
FUEL TANK	Capacity(Litres)	40	40	60	60	60	60	65	65	65	65
CA NOPY	Туре	-					TED				
	Sheetmetal	CRCA									
	Drat	FORCED									
	Insulation	FORM/ROCK/WOOL									
	Noise level at 1 m	75 DB @ 1 Meter In line with CPCB norms									
OTHER ITEMS	Base frame		100	1	1.0		RCA Channel	300	W. Con		0
	AVMs	4	4	4	4	4	4	4	4	4	4
		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
OTHER ITEMS	I Briefgerich Stop						and the second second		to the same of the		
OTHER ITEMS	Emergency stop Internal Lights	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

^{* &#}x27;BLISS' the brand and catch line 'BLISS-Powerfully Reliable' are used by Kirloskar Bectric Company for Diesel generating sets that gets manufactured at its units in different locations.