

COMPANY MANUFACTURED DG SETS

Straight from Kirloskar Electric...

OPTIONS:

- AMF Panel
- Single Phase Ratings

Basic Engineers & Traders

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**Rupee
Saving**

- Economical Product cost
- Low diesel consumption
- Low Lube oil consumption
- Longer interval between Overhauls
- Longer life of parts
- Economically priced spares

BLISS DG Set

Power-fully Reliable

Certificate

Engine: ARAI approved
ACOUSTICS: FCRI approved
ALTERNATOR: KEMA certified
SAFETY UNIT: ETDC approved
DG SET: CPCB complaint

APPROVED
KIRLOSKAR ELECTRIC COMPANY



...With the stamp of
Kirloskar Electric Quality

TECHNICAL PARTICULARS OF KIRLOSKAR ELECTRIC BLISS DG SETS - FREEDOM SERIES

DG SET	Model	12.5K-KFWN105	15K-2KFWN105	20K-3KFWN105	22.5K-3KFWN105	24K-3KFWN105	25K-4KFWN105	30K-4KFWN105	34K-4KFWN105	
	Rating (KVA)	12.5	15	20	22.5	24	25	30	34	
	Rated KW	10	12	16	18	19.2	20	24	27.2	
	Rated Current (Amps)	17	21	28	31	33	35	42	47	
	Length x Width x Height (mm)	1900x1025x1650	1900x1025x1650	2125x950x1500	2125x950x1500	2125x950x1500	2250x1050x1500	2250x1050x1500	2250x1050x1500	
	Total Dry Weight (Kgs)	900	900	1090	1090	1090	1350	1350	1350	
ENGINE	Make	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	
	Model	2KFWN105	2KFWN105	3KFWN105	3KFWN105	3KFWN105	4KFWN105	4KFWN105	4KFWN105	
	BHP	23	23	31	31	31	44	44	44	
	No. of Cylinders	2	2	3	3	3	4	4	4	
	RPM	1500	1500	1500	1500	1500	1500	1500	1500	
	Bore (mm)	105	105	105	105	105	105	105	105	
	Stroke(mm)	117	117	117	117	117	117	117	117	
	Displacement (ltrs)	2.03	2.03	3.04	3.04	3.04	4.05	4.05	4.05	
	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	
	SFC (gms/BHP-hr)	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	
	Class of Governing	A	A	A	A	A	A	A	A	
	Aspiration	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	
	Air Filter	Dry Type	Dry Type	Dry Type	Dry Type	Dry Type	Dry Type	Dry Type	Dry Type	
	Fuel	HSD	HSD	HSD	HSD	HSD	HSD	HSD	HSD	
	Type of Oil	20W/40	20W/40	20W/40	20W/40	20W/40	20W/40	20W/40	20W/40	
	Oil sump capacity (ltrs)	9	9	12	12	12	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	
	Cooling	Liquid Force cooling								
	Bare Radiator Coolant capacity (ltrs)	3	3	3	3	3	13	13	13	
Water capacity with engine Jacket (ltrs)	6.50	6.50	8.50	8.50	8.50	13	13	13		
Engine Dry weight (Kgs)	235	290	290	290	290	350	350	350		
Electric Starting System	12V	12V	12V	12V	12V	12V	12V	12V		
ALTERNATOR	Make	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	
	Model	4AB160	4AB160	4AB160	4AB160	4AB180	4AB180	4AB180	4AB180	
	Type	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	
	KVA	12.5	15	20	22.5	24	25	30	34	
	Voltage (V)	415	415	415	415	415	415	415	415	
	No. of phases	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	
	Speed (rpm) / Frequency (Hz)	1500/50	1500/50	1500/50	1500/50	1500/50	1500/50	1500/50	1500/50	
	Voltage Regulation	+/- 1%	+/- 1%	+/- 1%	+/- 1%	+/- 1%	+/- 1%	+/- 1%	+/- 1%	
	Enclosure	SPDP	SPDP	SPDP	SPDP	SPDP	SPDP	SPDP	SPDP	
	Insulation class	H	H	H	H	H	H	H	H	
	Weight of ACG (Kgs)	150	150	162	162	180	180	210	260	
CONTROL PANEL	Type	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, Emergency Stop, Display Section & Fault Reset								
	Protection	Short Circuit, Over load, MCCB with shunt coil for power ckt(above 22.5KVA) & MCBs for control circuit								
Safeties	Low Lub Oil Pressure, High Coolant temperature, Auto Shut Down, Visual & Audio Alarm against Fault									
BATTERY	Make	Exide/Reputed	Exide/Reputed	Exide/Reputed	Exide/Reputed	Exide/Reputed	Exide/Reputed	Exide/Reputed	Exide/Reputed	
	Type	Maintenance Free								
	Rating (AH)	90	90	90	90	90	90	90	90	
	Quantity (Nos.)	1	1	1	1	1	1	1	1	
EXHAUST SYSTEM	Charging Facility	Charging Alternator								
	Battery metering	Ammeter								
	Silencer type	Residential								
FUEL TANK	Location	Radiator Duct	Radiator Duct			Top				
	Exhaust pipe size (inches)	2.5	2.5	2.5	2.5	2.5	3	3	3	
CANOPY	Type	Bolted								
	Sheetmetal	CRA								
OTHER ITEMS	Draft	Forced								
	Insultaion	Foam/Rock Wool								
	Noise level at 1 m	75 DB @ 1 Meter In line with CPCB norms								
	Base frame	Pressed CRCA Channel								
OTHER ITEMS	AVM's Qty (Nos)	4	4	4	4	4	4	4	4	
	Emergency stop	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Internal Lights	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Engine Power Declared is at NTP

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TECHNICAL PARTICULARS OF KIRLOSKAR ELECTRIC BLISS DG SETS - REPUBLIC SERIES

DG SET	Model	40K-4KSWN108	45K-4KSWN108	50K-4KSWTC105	63K-4KSWTC105	75K-4KSWTC105	82.5K-6KSWTC105	100K-6KSWTC105	110K-6KSWTC105	125K-6KSWTC105	140K-6KSWTC113	160K-6KSWTC113	
	Rating (KVA)	40	45	50	62.5	75	82.5	100	110	125	140	160	
	Rated KW	32	36	40	50	60	66	80	88	100	112	128	
	Rated Current (Amps)	56	63	70	88	104	115	139	153	174	195	223	
	Length x Width x Height (mm)	2700x1200x2100	2700x1200x2100	2700x1200x2100	2700x1200x2100	3000x1200x1815	3400x1200x2250	3400x1200x2250	3400x1200x2490	3400x1200x2490	3900x1600x2100	3900x1600x2100	
	Total Dry Weight (Kgs)	1350	1350	1500	1500	1500	2125	2125	2600	2600	3150	3250	
	Make	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric
ENGINE	Model	4KSWN108	4KSWN108	4KSWTC105	4KSWTC105	4KSWTC105	6KSWTC105	6KSWTC105	6KSWTC105	6KSWTC105	6KSWTC113	6KSWTC113	
	BHP	59.8	59.8	75	75	89.5	114.5	149.5	172.5	172.5	210	210	
	No. of Cylinders	4	4	4	4	4	6	6	6	6	6	6	
	RPM	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	
	Bore (mm)	108	108	105	105	105	105	105	105	105	113	113	
	Stroke (mm)	135	135	125	125	135	130	130	135	135	125	125	
	Displacement (litrs)	4.94	4.94	4.33	4.33	4.67	6.75	6.75	7.00	7.00	7.52	7.52	
	Compression ratio	16:01	16:01	16:01	16:01	16:01	16:01	16:01	16:01	16:01	16:01	17:01	17:01
	SFC (gms/BHP-hr)	155	155	144	144	155	147	147	149	149	154	154	
	Governor	Mech	Mech	Mech	Mech	Mech	Mech	Mech	Mech	Mech	Mech	Mech	
	Class of Governing	A	A	A	A	A	A	A	A	A	A	A	
	Aspiration	Natural	Natural	TC	TC	TCAC	TC	TCAC	TCAC	TCAC	TCAC	TCAC	
	Air Filter	Dry Type	Dry Type	Dry Type	Dry Type	Dry Type	Dry Type	Dry Type	Dry Type	Dry Type	Dry Type	Dry Type	
	Fuel	HSD	HSD	HSD	HSD	HSD	HSD	HSD	HSD	HSD	HSD	HSD	
	Type of Oil	20W/40	20W/40	20W/40	20W/40	20W/40	20W/40	20W/40	20W/40	20W/40	20W/40	20W/40	
	Oil sump capacity (litrs)	11	11	13	13	13	19	19	19	19	21	21	
	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	0.22	
	Cooling	Liquid Force cooling											
	Bare radiator Coolant capacity (litrs)	9	9	9	9	11	13	13	13	13	13	17	17
	Coolant Capacity with engine Jacket (litrs)	12	12	12	12	14	18	18	18	18	18	21	21
	Engine Dry weight (Kgs)	410	410	435	435	475	620	620	620	620	635	635	
	Electric Starting System	12V	12V	12V	12V	12V	24V	24V	24V	24V	24V	24V	24V
	ALTERNATOR	Make	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric
Model		4AB200S1	4AB200S1	4AB200S1	4AB200M1	4AB225S1	4AB225S1	4AB225S1	4AB225M1	4AB225M1	4AB280S1	4AB280S1	
Type		Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	
KVA		40	45	50	62.5	75	82.5	100	110	125	140	160	
Voltage (V)		415	415	415	415	415	415	415	415	415	415	415	
No. of phases		3	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	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	1500 / 50	1500 / 50
Voltage Regulation		+/- 1%	+/- 1%	+/- 1%	+/- 1%	+/- 1%	+/- 1%	+/- 1%	+/- 1%	+/- 1%	+/- 1%	+/- 1%	
Enclosure		SPDP	SPDP	SPDP	SPDP	SPDP	SPDP	SPDP	SPDP	SPDP	SPDP	SPDP	
CONTROL PANEL	Insulation class	H	H	H	H	H	H	H	H	H	H	H	
	Weight of ACG (Kgs)	260	270	310	390	390	390	490	490	490	590	590	
	Type	Ready to use / In built											
	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											
BATTERY	Functions	Manual Start/Stop, Emergency Stop, Display Section & Fault Reset											
	Protection	Short Circuit, Over load, MCCB with shunt coil for power ckt(above 22.5KVA) & MCBs for control circuit											
	Safeties	Low Lub Oil Pressure, High Coolant temperature, Auto Shut Down, Visual & Audio Alarm against Fault											
	Make	Exide/Reputed	Exide/Reputed	Exide/Reputed	Exide/Reputed	Exide/Reputed	Exide/Reputed	Exide/Reputed	Exide/Reputed	Exide/Reputed	Exide/Reputed	Exide/Reputed	Exide/Reputed
	Type	Maintenance Free											
	Rating (AH)	130	130	100	100	130	130	130	130	130	130	130	130
	Quantity (Nos)	1	1	1	1	1	2	2	2	2	2	2	2
	Charging Facility	Charging Alternator											
	Battery metering	Ammeter											
	EXHAUST SYSTEM	Silencer type	Residential										
Location		Top											
Exhaust pipe size (inches)		3	3	3	3	3	3	4	4	6	6	6	
FUEL TANK	Type	In built											
	Capacity (Liters)	110	110	110	110	120	160	160	160	160	305	305	
CANOPY	Type	Bolted											
	Sheetmetal	CRCA											
	Draft	Forced											
	Insulation	Foam/Rock Wool											
	Noise level at 1 m	75 DB @ 1 Meter in line with CPCB norms											
OTHER ITEMS	Base frame	Pressed CRCA Channel											
	AVM's Qty (Nos)	5	5	5	5	5	7	7	7	7	8	8	
	Emergency stop	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	
	Internal Lights	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	

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