

Technical Particulars of Kirloskar Electric BLISS DG Sets - Republic Series												
DG SET	Model	40K-4KSWN108	45K-4KSWN108	50K-4KSWTC105	63K-4KSWTC105	75K-6KSWTC105	82.5K-6KSWTC105	100K-6KSWATC105	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)	2800X1200X1700	2800X1200X1700	2800X1200X1700	2800X1200X1700	3550X1250X1975	3550X1250X1975	3550X1250X1975	3550X1250X1975	3550X1250X1975	3900 x 1600 x 2100	3900 x 1600 x 2100
Total Dry Weight (Kgs)	1350	1350	1500	1500	2125	2125	2125	2600	2600	3150	3250	
ENGINE	Make	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric
	Model	4KSWN108	4KSWN108	4KSWTC105	4KSWTC105	6KSWTC105	6KSWTC105	6KSWATC105	6KSWTC105	6KSWTC105	6KSWTC113	6KSWTC113
	BHP	59.8	59.8	75	75	114	114	149.5	149.5	172.5	210	210
	No. of Cylinders	4	4	4	4	6	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	135	130	135	135	125	125
	Displacement(ltrs)	4.94	4.94	4.33	4.33	7.01	7.01	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	17:01	17:01
	SFC (gms/BHP-hr)	155	155	155	155	159	159	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	TC	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(ltrs)	11	11	13	13	19	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	WC / Radiator / Force Cooled										
	Bare Radiator Coolant capacity(ltrs)	9	9	9	9	13	13	13	13	13	17	17
	Coolant Capacity with engine Jacket(ltrs)	12	12	12	12	18	18	18	18	18	21	21
	Engine Dry Weight (Kgs)	410	410	435	435	580	580	620	620	620	635	635
Electric Starting System	12V	12V	12V	12V	24V	24V	24V	24V	24V	24V	24V	
ALTERNATOR	Make	KEC	KEC	KEC	KEC	KEC	KEC	KEC	KEC	KEC	KEC	KEC
	Model	4AB200S1	4AB200S1	4AB200S1	4AB200M1	4AB225S1	4AB225S1	4AB225S1	4AB225M1	4AB225M1	4AB280S1	4AB280S1
	Type	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless
	Rating (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
	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
Insulation class	H	H	H	H	H	H	H	H	H	H	H	
Weight of ACG(Kgs)	270	270	270	310	390	390	390	440	440	580	580	
CONTROL PANEL	Type	With microprocessor based BLISS EAR Monitor/Inbuilt										
	DG parameter monitoring display	ON BLISS EAR monitor - Volts line to line & line to neutral , Amps, Hz, Hour, KW, KWH, kVA, PF.										
	Engine parameter monitoring display	ON BLISS EAR monitor- Oil pressure, oil temp, coolant temp. fuel level, battery voltage & charging status, engine speed									ON BLISS EAR monitor- Oil pressure, oil temp, coolant temp.LFL alarm, battery voltage & charging status, engine speed	
	Functions	Manual Start/Stop, Emergency Stop, Cooling time, LCD Display, acknowledgment & Fault Reset.										
	Protection	Short Circuit, Over load,MCCB with shunt coil for power ckt, MCB's for control circuit.										
BATTERY	Safeties	Low Lube Oil Pressure, High Coolant Temperature, Over load, Under & over voltage, Under & over frequency Auto Shut Down, Visual & Audio Alarm against Fault.										
	Make	Exide Express /Reputed	Exide Express /Reputed	Exide Express /Reputed	Exide Express /Reputed	Exide Express /Reputed	Exide Express /Reputed	Exide Express /Reputed	Exide Express /Reputed	Exide Express /Reputed	Exide Express /Reputed	Exide Express /Reputed
	Type	MAINTENANCE FREE										
	Rating (AH)	130	130	100	100	130	130	130	130	130	130	130
	Quantity(Nos.)	1	1	1	1	2	2	2	2	2	2	2
EXHAUST SYSTEM	Charging Facility	Charging Alternator										
	Battery metering	Ammeter, Voltmeter built in BLISS EAR Monitor										
	Silencer type	Residential										
FUEL TANK	Location	Inside canopy in radiator duct									TOP	
	Exhaust pipe size in mm	90	90	90	90	115	115	115	115	165	152	152
CANOPY	Type	Drag type in base frame										
	Capacity (Liters)	120	120	120	120	200	200	200	200	200	305	305
	Sheet metal	BOLTED CRCA Forced										
OTHER ITEMS	Draft	FOAM/ROCK WOOL										
	Insulation	75 DB @ 1 Meter In line with CPCB norms										
	Noise level at 1 m	Pressed CRCA Channel										
OTHER ITEMS	Base frame	AVMs Qty(Nos.)										
	AVMs Qty(Nos.)	4	4	4	4	6	6	6	6	6	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	

In view of the continuous product development the format furnished is subject to revision and since published data is widely circulated, responsibility of seeking update rests with the user