

KIRLOSKAR ELECTRIC COMPANY LTD.,



TECHNICAL PARTICULARS OF KIRLOSKAR ELECTRIC BLISS DG SETS - 12.5kVA to 45kVA

DG SET	Model	KEC-E12.5 -II	KEC-E15 -II	KEC-E20 -II	KEC-E25 -II	KEC-E30 -II	KEC-E32.5-II	KEC-E40 - II	KEC-E45-II
		Rating (kVA)	12.5	15	20	25	30	32.5	40
	Rated kW	10	12	16	20	24	26	32	36
	Rated Current (Amps)	17.4	20.9	27.8	34.8	41.7	45.2	55.6	62.5
	Length x Width x Height (mm)	1825X950X1270	1825X950X1270	2000X950X1260	2225X1000X1360	2225X1000X1360	2225X1000X1360	2550X1100X1510	2550X1100X1575
	Total Dry Weight (Kgs)	800	800	950	1200	1200	1200	1300	1300
ENGINE	Engine Make	Escorts	Escorts	Escorts	Escorts	Escorts	Escorts	Escorts	Escorts
	Model	G15- II	G15- II	G20- II	G25- II	G30- II	G30- II	G40-II	G40-II
	BHP	22	22	25	33	43	43	58	58
	No. of Cylinders	2	2	3	3	3	3	4	4
	RPM	1500	1500	1500	1500	1500	1500	1500	1500
	Bore (mm)	95	95	91	91	91	91	91	91
	Stroke (mm)	110	110	110	110	110	110	110	110
	Displacement (litrs)	1.56	1.56	2.15	2.15	2.15	2.15	2.86	2.86
	Compression ratio	17.5:1	17.5:1	17.5:1	17.5:1	17.5:1	17.5:1	17.5:1	17.5:1
	SFC (litrs/hr)	2.86	3.78	4.17	5.46	6.46	6.46	9.5	9.5
	Governor	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
	Class of Governing	A	A	A	A	A	A	A	A
	Aspiration	NATURAL	NATURAL	NATURAL	TCI	TCI	TCI	TCI	TCI
	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	15W 40 C14	15W 40 C14	15W 40 C14	15W 40 C14+	15W 40 C14+	15W 40 C14+	15W 40 C14+	15W 40 C14+
	Oil sump capacity (litrs)	5	5	6.5	6.5	6.5	6.5	8	8
	Lube oil consumption (gms/BHP-hr)	≤ 0.1% of FC	≤ 0.1% of FC	≤ 0.1% of FC	≤ 0.1% of FC	≤ 0.1% of FC	≤ 0.1% of FC	≤ 0.15% of FC	≤ 0.15% of FC
	Cooling	Liquid Cooled	Liquid Cooled	Liquid Cooled	Liquid Cooled	Liquid Cooled	Liquid Cooled	Liquid Cooled	Liquid Cooled
	Bare Radiator Coolant capacity (litrs)	4.3	4.3	6.4	10	10	10	10	10
Coolant Capacity with engine Jacket (litrs)	7.1	7.1	10.9	14.5	14.5	14.5	16	16	
Engine Dry Weight (Kgs)	248	248	320	350	350	350	450	450	
Electric Starting System	12V	12V	12V	12V	12V	12V	12V	12V	
ALTERNATOR	Make	KEC	KEC	KEC	KEC	KEC	KEC	KEC	KEC
	Model	4AB160M1	4AB160M1	4AB160L1	4AB160L1	4AB 180S1	4AB 180M1	4AB180L1	4AB200S1
	Type	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless
	Rating (kVA)	12.5	15	20	25	30	32.5	40	45
	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	200	244	
CONTROL PANEL	Type	ASAS \ AMF 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,coolant temp,fuel level, battery voltage & charging status, engine speed							
	Functions	Auto Start/Stop, Emergency Stop, Cooling time, LCD Display, acknowledgment & Fault Reset.							
Protection	Short Circuit, Over load MCCB, MCB's for control circuit.,								
Safeties	Low Lube Oil Pressure, High Coolant Temperature, over load, under & over voltage, under & over frequency 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
Charging Facility	Charging Alternator								
Battery metering	Ammeter, Voltmeter built in BLISS EAR Monitor								
EXHAUST SYSTEM	Silencer type	Residential							
	Location	Hot Air Chamber							
FUEL TANK	Exhaust pipe size in mm	75	75	75	75	75	75	75	75
	Type	Drag type in base frame							
CANOPY	Capacity (Liters)	50	50	65	75	75	75	75	75
	Type	BOLTED							
	Sheet metal	CRCA							
	Draft	Forced							
OTHER ITEMS	Insulation	Fire retardent FOAM							
	Noise level at 1 m	75 dB @ 1 Meter In line with CPCB norms							
	Base frame	Pressed CRCA Channel							
OTHER ITEMS	AVMs 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.

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.