

# KIRLOSKAR ELECTRIC COMPANY LTD.,



## TECHNICAL PARTICULARS OF KIRLOSKAR ELECTRIC BLISS DG SETS - 50kVA-125kVA

DG SET	Model	KEC-T50- II	KEC-T63-II	KEC-T75 -II	KEC-T82.5-II	KEC-T100-II	KEC-T125-II
	Rating (kVA)	50	63	75	82.5	100	125
	Rated kW	40	50	60	66	80	100
	Rated Current (Amps)	69.56	87.65	104.34	114.77	139.12	173.90
	Length x Width x Height (mm)	2800X1100X1660	2800X1100X1660	3350x1200x1660	3350x1200x1660	3350x1200x1660	3600x1200x1715
	Total Dry Weight (Kgs)	1500	1500	1800	1800	1800	2000
ENGINE	Engine Make	TATA	TATA	TATA	TATA	TATA	TATA
	Model	497 TC75	497TC74	697-TC51	697-TC51	697-TC52	697-TC10
	BHP	75.7	89.8	109.3	109.3	125.4	154.2
	No. of Cylinders	4	4	6	6	6	6
	RPM	1500	1500	1500	1500	1500	1500
	Bore (mm)	97	97	97	97	97	97
	Stroke (mm)	128	128	128	128	128	128
	Displacement (litrs)	3.8	3.8	5.678	5.678	5.678	5.678
	Compression ratio	17.5:1	17.5:1	17.5±1:1	17.5±1:1	17.5±1:1	17.5±1:1
	SFC (litrs/hr)	12.4	15.3	15.3	20	23.9	29
	Governor	Mechanical	Mechanical	Electronic	Electronic	Electronic	Mechanical
	Class of Governing	A	A	G3	G3	G3	A
	Aspiration	TCIC	TCIC	TCIC	TCIC	TCIC	TCIC
	Air Filter	Dry Type	Dry Type	Dry type	Dry type	Dry type	Dry type
	Fuel	HSD-ASTM D2	HSD-ASTM D2	HSD	HSD	HSD	HSD
	Type of oil	10W40 C14+	10W40 C14+	10W40 C14+	10W40 C14+	10W40 C14+	10W40 C14+
	Oil sump capacity (litrs)	9	9	14	14	14	14
	Lube Oil consumption (gms/BHP-hr)	≤ 0.3% of FC	≤ 0.3% of FC	≤ 0.09% of FC	≤ 0.09% of FC	≤ 0.09% of FC	≤ 0.09% of FC
	Cooling	Liquid Cooled	Liquid Cooled	Liquid Cooled	Liquid Cooled	Liquid Cooled	Liquid Cooled
	Bare Radiator Coolant capacity (litrs)	9	9	8.5	8.5	8.5	8.5
	Coolant Capacity with engine Jacket (litrs)	3	3	26	26	26	26
	Engine Dry Weight (Kgs)	390	390	500	500	500	500
	Electric Starting System	12V	12 V	12V	12V	12 V	12 V
	Make	KEC	KEC	KEC	KEC	KEC	KEC
ALTERNATOR	Model	4AB200S1	4AB200M1	4AB225S1	4AB225S1	4AB225S1	4AB225M1
	Type	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless
	Rating (kVA)	50	63	75	82.5	100	125
	Voltage (V)	415	415	415	415	415	415
	No. of Phases	3	3	3	3	3	3
	Power Factor	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
	Voltage Regulation	+/- 1%	+/- 1%	+/- 1%	+/- 1%	+/- 1%	+/- 1%
	Enclosure	SPDP	SPDP	SPDP	SPDP	SPDP	SPDP
	Insulation class	H	H	H	H	H	H
	Weight of ACG (Kgs)	222	282	286	286	337	387
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 Genplus /Reputed	Exide Genplus	Exide Genplus /Reputed	Exide Genplus /Reputed	Exide Genplus /Reputed	Exide Genplus /Reputed
	Type	MAINTENANCE FREE					
	Rating (AH)	90	90	90	90	90	90
	Quantity (Nos.)	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	90	90	115	115	115	115
	Type	Drag type in base frame					
	Capacity (Liters)	100	100	170	170	170	170
	Type	BOLTED					
CANOPY	Sheet metal	CRCA					
	Draft	Forced					
	Insulation	Fire retardant FOAM					
	Noise level at 1 m	75 dB @ 1 Meter In line with CPCB norms					
OTHER ITEMS	Base frame	Pressed HR Channel					
	AVMs Qty (Nos.)	4	4	4	4	4	4
	Emergency stop	YES					
	Internal Lights	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.

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