

KIRLOSKAR ELECTRIC COMPANY LTD.,



TECHNICAL PARTICULARS OF KIRLOSKAR ELECTRIC BLISS DG SETS - 50KVA-200KVA

Model	KEC-T63-II	KEC-T63-II	KEC-T75-II	KEC-T82.5-II	KEC-T100-II	KEC-T125-II	KEC-C160-II	KEC-C180-II	KEC-C200-II	
DG SET										
Rating (kVA)	50	63	75	82.5	100	125	160	180	200	
Rated kW	40	50	60	66	80	100	128	144	160	
Rated Current (Amps)	69.56	87.65	104.34	114.77	139.12	173.90	222.4	250.2	278	
Length x Width x Height (mm)	2800x1000x1680	2800x1000x1680	3350x1200x1660	3350x1200x1660	3350x1200x1660	3600x1200x1715	4200x1400x 1900	4200x1400x 1900	4350x1450x1900	
Total Dry Weight (Kgs)	1500	1500	1800	1800	1800	2000	2500	2700	3000	
Engine Make	TATA	TATA	TATA	TATA	TATA	TATA	COOPER	COOPER	COOPER	
Model	497-TC75	497-TC74	697-TC51	697-TC51	697-TC52	697-TC10	6B5D1C150RW	6B5D1C170RW	6B5D1C190RW	
BHP	75.7	89.8	109.3	109.3	125.4	154.2	201	228	255	
No. of Cylinders	4	4	6	6	6	6	6	6	6	
RPM	1500	1500	1500	1500	1500	1500	1500	1500	1500	
Bore (mm)	97	97	97	97	97	97	107	107	107	
Stroke (mm)	128	128	128	128	128	128	126	126	126	
Displacement (litrs)	3.8	3.8	5.678	5.678	5.678	5.678	6.8	6.8	6.8	
Compression ratio	17.5:1	17.5:1	17.5:1:1	17.5:1:1	17.5:1:1	17.5:1:1	17.5:1	17.5:1	17.5:1	
SFC (litrs/hr)	12.4	15.3	15.3	20	23.9	28	156	156	152	
Governor	Mechanical	Mechanical	Electronic	Electronic	Electronic	Mechanical	Mechanical	Mechanical	Mechanical	
Class of Governing	A	A	G3	G3	G3	A	A	A	A2	
Aspiration	TCIC	TCIC	TCIC	TCIC	TCIC	TCIC	TCIC	TCIC	TCIC	
Air Filter	Dry Type	Dry Type	Dry Type	Dry Type	Dry Type	Dry Type	Dry Type	Dry Type	Dry Type	
Fuel	HSD-ASTM D2	HSD-ASTM D2	HSD	HSD	HSD	HSD	HSD-ASTM D2	HSD-ASTM D2	HSD-ASTM D2	
Type of oil	10W40 C14+	10W40 C14+	10W40 C14+	10W40 C14+	10W40 C14+	10W40 C14+	15W 40 CH4	15W 40 CH4	15W 40 CH4	
Oil sump capacity (litrs)	9	9	14	14	14	14	11	11	11	
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	< 0.1% of FC	< 0.1% of FC	< 0.1% of FC	
Cooling	Liquid Cooled	Liquid Cooled	Liquid Cooled	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	16	16	16	
Coolant Capacity with engine Jacket (litrs)	3	3	26	26	26	26	22	22	22	
Engine Dry Weight (Kgs)	390	390	500	500	500	500	700	700	700	
Electric Starting System	12V	12V	12V	12V	12V	12V	24V	24V	24V	
Make	KEC	KEC	KEC	KEC	KEC	KEC	KEC	KEC	KEC	
Model	4AB200S1	4AB200M1	4AB225S1	4AB225S1	4AB225S1	4AB225M1	4AB230S1	4AB230M1	4AB230M1	
Type	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	
Rating (kVA)	50	63	75	82.5	100	125	160	180	200	
Voltage (V)	415	415	415	415	415	415	415	415	415	
No. of Phases	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	
Speed (rpm) / Frequency (Hz)	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%	
Enclosure	SPOP	SPOP	SPOP	SPOP	SPOP	SPOP	SPOP	SPOP	SPOP	
Insulation class	H	H	H	H	H	H	H	H	H	
Weight of ACG (Kgs)	222	282	286	286	337	387	580	645	645	
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 Type MAINTENANCE FREE Rating (AH) 90 90 90 90 90 90 90 90 90 90 Quantity (Nos.) 1 1 1 1 1 1 1 2 2 2 Charging Facility Charging Alternator Battery metering Ammeter, Voltmeter built in BLISS EAR Monitor Silencer type Residential Location Hot Air Chamber									
EXHAUST SYSTEM	Exhaust pipe size in mm 90 90 115 115 115 115 165 165 165 165 Type Drag type in base frame									
FUEL TANK	Capacity (Liters) 100 100 170 170 170 170 300 300 300 300 Type BOLTED Sheet metal CRCA Draft Fenced Insulation Fire retardant FOAM Noise level at 1 m 75 dB @ 1 Meter In line with CPCB norms									
CANOPY	Base frame Pressed HR Channel A/Vs Qty (Nos.) 4 4 4 4 4 4 4 4 4 4 Emergency stop YES Internal Lights YES									
OTHER ITEMS	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.									