

Technical Particulars of Kirloskar Electric BLISS DG Sets - Independence Series

	Model	180K-6IKK135ZLD	200K-6IKK135ZLD	250K-6IKC120IZD2	320K-12VKK135AZD	380K-12VKK135IAZLD	500K-12VKK135BIZLD2	
DG SET	RATING (kVA)	180	200	250	320	380	500	
	Rated kW	144	160	200	256	304	400	
	Rated Current (Amps)	251	278	348	445	528	695	
	Length x Width x Height (mm)x(mm)x(mm)	4600 x 1700x2300	4600 x 1700x2300	4800 x 1700x 2050	5400 x 1900 x 2300	5400 x 1900 x 2300	6100 x 2000 x 2500	
	Total Dry Weight (Kgs)	3800	3800	3800	5200	5400	6200	
ENGINE	Make	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	Kirloskar Electric	
	Model	6IKK135ZLD	6IKK135ZLD	6IKC120IZD2	12VKK135AZD	12VKK135IAZLD	12VKK135BIZLD2	
	BHP	254	254	321	408	461	617	
	No. of Cylinders	6	6	6	12	12	12	
	RPM	1500	1500	1500	1500	1500	1500	
	Bore(mm)	135	135	120	135	135	135	
	Stroke(mm)	150	150	152	150	150	155	
	Displacement(ltrs)	12.88	12.88	10.45	25.80	25.80	26.6	
	Compression ratio	17:1	17:1	16.5:1	16:1	16:1	16:1	
	SFC (gms/BHP-hr)	147 (+ 5%)	147 (+ 5%)	147 (+ 5%)	153 (+5%)	147 (+ 5%)	147 (+ 5%)	
	Governor	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	
	Class of Governing	A1	A1	A1	A1	A1	A1	
	Aspiration	TC	TC	TCI	TC	TCI	TCI	
	Air filter	Dry type	Dry type	Dry type	Dry type	Dry type	Dry type	
	Fuel	HSD	HSD	HSD	HSD	HSD	HSD	
	Type of oil	CD	CD	CD	CD	CD	CD	
	Oil sump capacity(ltrs)	24	24	27.5	34	34	34	
	Lub Oil consumption (gms/BHP-hr)	0.22	0.22	0.15	0.30	0.30	0.30	
	Cooling	WC / RADIATOR / H E /FORCE COOLED						
	Bare Radiator Coolant capacity(ltrs)	24	24	34	36	50	110	
Coolant Capacity with engine Jacket(ltrs)	23	23	20	48	48	48		
Engine Dry Weight (Kgs)	1200	1200	960	1800	1800	1900		
Electric Starting System	24V	24V	24V	24V	24V	24V		
Make	KEC	KEC	KEC	KEC	KEC	KEC		
Model	4AB280M1	4AB280M1	4AB280L1	4AB315S1	4AB315M1	4AB355S1		
Type	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless		
Rating (kVA)	180	200	250	320	380	500		
Voltage (V)	415	415	415	415	415	415		
ALTERNATOR	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%	
Endosure	SPDP	SPDP	SPDP	SPDP	SPDP	SPDP		
Insulation class	H	H	H	H	H	H		
Weight of ACG(Kgs)	645	645	870	925	1080	1450		
Make	Kirloskar Electric							
Type	RTU as Standard							
Monitoring	BLISS EAR MONITOR WITH LCD display indicating kWh, kVA, pf, Volts, Amps, Hz,							
CONTROL PANEL	Indications	RPM, Hour, oil pressure, oil temperature, coolant temperature and fuel level.						
	Protection	Short Circuit, Over load, over speed, Earth fault as standard and reverse power as optional						
Safeties	Auto Shut down, Visual & Audio Alarm for Low Lub Oil Pressure, High coolant Temperature, low fuel level, Canopy temperature & Radiator water level.							
BATTERY	Make	Exide	Exide	Exide	Exide	Exide	Exide	
	Type	MAINTENANCE FREE						
EXHAUST SYSTEM	Rating (AH)	150	150	150	180	180	180	
	Quantity(Nos.)	2	2	2	2	2	2	
	Charging Facility	Charging Alternator						
	Battery metering	Ammeter						
FUEL TANK	Silencer type	Hospital /Residential						
	Location	TOP						
CANOPY	Exhaust pipe size(inches)	6	6	6	8	8	8	
	Type	Detachable, mechanical level indicator, strainer, drain cock						
	Capacity (ltrs)	400	400	500	650	750	990	
OTHER ITEMS	Type	BOLTED						
	Sheet metal	CRCA						
	Draft	NATURAL						
	Insulation	ROCK WOOL						
Noise level at one mtr	75 db @ one mtr In line with CPCB norms							
Base frame	ISMIC							
INTERNAL LIGHTS	AVMs Qty(Nos.)	6	6	6	8	8	8	
	Emergency stop	YES	YES	YES	YES	YES	YES	
	Internal Lights	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. Since published data is widely circulated, responsibility of seeking update rests with the user.

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