RELIABLE



CONVERTING ENERGY TO SERVE

BILLIONS

EFFICIENT

CPCB-II COMPLIANT KIRLOSKAR ELECTRIC NEW GENERATION-MK VGENERATION NEXT BLISS SERIES ROBUST PRODUCT VALUE FOR MONEY EFFICIENT COMPACT STATE-OF-THE-ART TECHNOLOGY SINGLE WINDOW SERVICE COMPLETE SOLUTION CPCB-II COMPLIANT POWERFULLY RELIABLE ARAI & FCRI APPROVED ROBUST PRODUCT WEB ENABLED SERVICE EFFICIENT COMPACT POWERFULLY RELIABLE GENERATION NEXT BLISS SERIES GLOBAL CUSTOMER BASE CPCB-II COMPLIANT

GET YOUR OWN BLISS

COMPACT

BLISS

POWER - fully RELIABLE

GENERATION NEXT DG Sets from KIRLOSKAR ELECTRIC



About

Kirloskar Electric company

A seven decade young company carved a niche for itself in the design & manufacturing electrical equipments, manufacturing units, producing a wide range of electrical products viz. AC generators, generators, AC motors, Induction machines, DG sets, Power & Distribution transformers, Low & Medium Voltage Switchgear, Traction equipments and many more. Few years back Kirloskar Electric acquired a German Company M/S LDW (A company which was formerly AEG Group) to enhance its product range in AC machines to 55MW.



Manufacturing Plants

From 12.5 KVA up to 200 KVA of power potential, our Mark V Bliss series of DG sets are built to world class standards of efficiency, reliability, emissions & noise standards.

Features

- Foot print best in the industry-compact in size
- Fuel efficient sets on par or better with leading brands in the industry
- Detachable fuel tank Ease for fuel filling
- Microprocessor based Bliss Ear Monitor with protection for both Engine and Alternator
- Efficient switching cum protection by devices like MCB/MCCB
- Hydraulic tappet adjustment ensuring long intervals between overhauls-Economy
- Longer Life of parts
- Ideally located lifting provision for ease of handling and safety to the DG sets
- · Single window service



Manufacturing Plant for DG Sets

Solutions

- · Auto mains failure
- · Load dependant start stop
- · Auto synchronizing, Auto load sharing for parallel operation amongst sets and grid
- · Parallel operation with Bliss existing sets of similar rating or dissimilar rating sets
- · Parallel operation with other make of sets
- Remote monitoring and control
- DG sets with Automatic changeover cum current limiter

Better ROI

The Kirloskar Electric Bliss range of Diesel Generator sets are powered by the most fuel efficient diesel engines thus delivering reliable and economical power solutions. The engines are coupled to rugged Kirloskar Electric alternators to suit all applications. With microprocessor based controller and high quality acoustics derived out of CNC machines, the Bliss DG sets deliver power solutions across all segments and applications.

Compact Optimized set

The Kirloskar Electric Bliss range of Diesel Generator sets are optimally designed, compact and with less vibration. The Bliss sets have the smallest footprint as compared to the other makes, thus delivering an advantage in an application where space is a constraint.

Operating Cost - Benefits

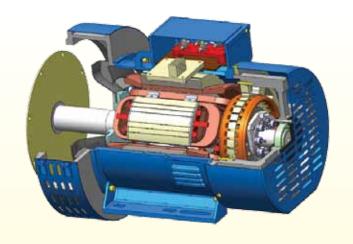
The Kirloskar Electric Bliss range of Diesel Generator sets are optimally designed and efficient, resulting in low operating costs.

Customer Delight - Single window service

The Kirloskar Electric Bliss range of Diesel Generator sets are serviced through a wide network of PAN India authorized service centres which is further augmented by effective PAN India spares network. The entire service module right from issue logging to resolution and customer acceptance is supported through a web based monitoring system.

Alternator

- Compact and aesthetically built
- Conforming to leading industrial and marine standards
- Winding configuration to have lower harmonics
- · Flexibility for offering different voltages
- Sophisticated solid state Automatic voltage regulator to derive close regulation
- Optimized design for good motor starting capability and transient response
- Terminal box in appropriate location for ease of maintenance
- Provision of accessories for marine requirements



Engine

- S-type rotary fuels pump for better efficiency
- · Derived out of advanced technology
- Hydraulic latch adjustor facilitates maintaining of right gap automatically at all times of running thus even eliminating the need of specialists for tappet setting and also enabling long over haul intervals***
- Usage of special material for cylinder liners and plateau honing not requiring top over haul at all for engine***
- Provision of cold advanced switch in engine enables automatic correction of fuel timing, thus leading to better efficiency***

Control Panel

- Powder coated for weather proof and long lasting finish
- Microprocessor based best configured with inbuilt AMF facility
- Suitably sized bus bar arrangement for incoming and outgoing terminals
- · Wider graphical LCD screen
- Comprehensive metering for both DG Sets and mains
- · MODBUS interface facility with RS485
- · Controller conforming to IEC standards

Canopy

- UV protected polyurethane powder coating for long life
- Specially designed acoustics to meet stringent CPCB/MOEF norms of 75 dBA @ 1 meter
- Two point lifting provision for easy handling & safety
- · Use of special hardwares for longer life
- Insulation material conforms IS 8123

Mobile Power Source

DG set mounted on a trailer facilitating power supply even at remote locations









^{***} For ratings above 82.5 kVA.

Technical Data - Freedom Series

	Model	KEC-K12.5-II	KEC-K15-II	KEC-E20-II	KEC-E25-II	KEC-E30-II	KEC-E32.5-II
	Rating (kVA)	12.5	15	20	25	30	32.5
SET	Rated kW	10	12	16	20	24	26
DG 8	Rated Current (Amps)	17.4	20.9	27.8	34.8	41.7	45.2
	Length x Width x Height (mm)	2000x1025x1425	2000x1025x1425	2275x1025x1425	2350x1100x1500	2350x1100x1500	2350x1100x1500
	Total Dry Weight (Kgs)	900	900	1100	1400	1450	1450
	Model	SL2105ABD	SL2105ABD	G20-II	G25-II	G30-II	G30-II
	ВНР	21.75	21.75	27.60	37	46	46
	No. of Cylinders	2	2	3	3	3	3
	RPM	1500	1500	1500	1500	1500	1500
	Bore (mm)	105	105	91	91	91	91
	Stroke (mm)	117	117	110	110	110	110
	Displacement (ltrs)	2.03	2.03	2.15	2.15	2.15	2.15
	Compression ratio	17:1 ± 0.5	17:1 ± 0.5	17.5:1	17.5:1	17.5:1	17.5:1
	SFC (gms/BHP-hr)	163	163	160	160	160	160
	Governor	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
ENGINE	Class of Governing	А	Α	A	А	А	Α
NG	Aspiration	NATURAL	NATURAL	NATURAL	TCI	TCI	TCI
Ш	Air Filter	Dry type	Dry type	Dry type	Dry type	Dry Type	Dry Type
	Fuel	HSD	HSD	HSD	HSD	HSD	HSD
	Type of oil	15W 40 CF4	15W 40 CF4	15W 40 CF4	15W 40 CF4	15W 40 CF4	15W 40 CF4
	Oil sump capacity (ltrs)	9	9	6	6	6	6
	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
	Cooling			Liqu	uid cool		
	Bare Radiator Coolant capacity (Itrs)	3	3	6.40	10	10	10
	Coolant Capacity with engine Jacket (ltrs)	6.50	6.50	10.90	14.50	14.50	14.50
	Engine Dry Weight (Kgs)	235	235	320	350	350	350
	Electric Starting System	12V	12V	12V	12V	12V	12V
	Make	KEC	KEC	KEC	KEC	KEC	KEC
	Model	4AB 160M1	4AB 160M1	4AB 160L1	4AB 160L1	4AB 180S1	4AB 180M1
	Туре	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless
~	kVA	12.5	15	20	25	30	32.5
Ö	Voltage (V)	415	415	415	415	415	415
ALTERNATOR	No. of Phases	3	3	3	3	3	3
E S			0.8	0.8	0.8	0.8	0.8
Ş	Power Factor	0.8	0.0				
◁	Power Factor Speed (rpm) / Frequency (Hz)	0.8	1500 / 50	1500 / 50	1500 / 50	1500 / 50	1500 / 50
						1500 / 50	
	Speed (rpm) / Frequency (Hz)	1500 / 50	1500 / 50	1500 / 50	1500 / 50		1500 / 50
	Speed (rpm) / Frequency (Hz) Voltage Regulation	1500 / 50 +/- 1%	1500 / 50	1500 / 50	1500 / 50	+/- 1%	1500 / 50 +/- 1%

Technical Data - Republic Series

	Model	KEC-T40-II	KEC-T50- II	KEC-T63-II	KEC-C75-II	KEC-C82.5-II	KEC-C100-II	KEC-C125-II	KEC-C140-II	KEC-C160-II	KEC-C180-II
	Rating (kVA)	40	50	63	75	82.5	100	125	140	160	180
SET	Rated kW	32	40	50	60	66	80	100	112	128	144
DG 8	Rated Current (Amps)	56	70	88	104	115	139	174	195	222	250
	Length x Width x Height (mm)	2800x1100x1650	2800x1100x1650	2800x1100x1650	3200x1200x1700	3200x1200x1700	3500x1200x1750	3500x1200x1750	4200x1400x1900	4200x1400x 1900	4200x1400x1900
	Total Dry Weight (Kgs)	1400	1500	1500	1800	1800	2000	2000	2500	2500	2700
	Model	497 TC76	497 TC75	497TC74	3B5D1C85RW	3B5D1C85RW	4B5D1C100RW	4B5D1C113RW	6B5D1C150RW	6B5D1C170RW	6B5D1C170RW
	ВНР	63	76	90	114	114	134	152	201	228	228
	No. of Cylinders	4	4	4	3	3	4	4	6	6	6
	RPM	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
	Bore (mm)	97	97	97	107	107	107	107	107	107	107
	Stroke (mm)	128	128	128	126	126	126	126	126	126	126
	Displacement (ltrs)	3.80	3.80	3.80	3.4	3.4	4.5	4.5	6.8	6.8	6.8
	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	17.5:1	17.5:1
	SFC (gms/BHP-hr)	164	164	164	161	161	156	156	156	156	156
	Governor	Mechanical	Mechanical								
ENGINE	Class of Governing	А	А	А	А	А	А	А	А	А	Α
S	Aspiration	TCIC	TCIC								
Ш	Air Filter	Dry Type	Dry type								
	Fuel	HSD-ASTM D2	HSD-ASTM D2								
	Type of oil	15 W 40 CH4	15W 40 CH4	15W 40 CH4	15W 40 CH4	15W 40 CH4	15W 40 CH4	15W 40 CH4	15W 40 CH4	15W 40 CH4	15W 40 CH4
	Oil sump capacity (ltrs)	9	9	9	6	6	8	8	11	11	11
	Lube Oil consumption (gms/BHP-hr)	< 0.3% of FC	< 0.3% of FC	< 0.3% of FC	< 0.1% of FC	< 0.1% of FC					
	Cooling	Liquid Cooled	Liquid Cooled								
	Bare Radiator Coolant capacity (ltrs)	9	9	9	13	13	13	13	16	16	16
	Coolant Capacity with engine Jacket (Itrs)	3	3	3	16	16	17	17	22	22	22
	Engine Dry Weight (Kgs)	390	390	390	520	520	580	580	700	700	700
	Electric Starting System	12V	12V	12 V	24V	24V	24V	24V	24V	24V	24V
	Make	KEC	KEC								
	Model	4AB180L1	4AB200S1	4AB200M1	4AB225S1	4AB225S1	4AB225S1	4AB225M1	4AB280S1	4AB280S1	4AB280M1
	Туре	Brushless	Brushless								
~	Rating (kVA)	40	50	63	75	82.5	100	125	140	160	180
0	Voltage (V)	415	415	415	415	415	415	415	415	415	415
¥	No. of Phases	3	3	3	3	3	3	3	3	3	3
ERI	Power Factor	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
ALTERNATOR	Speed (rpm) / Frequency (Hz)	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%
	Enclosure	SPDP	SPDP								
	Insulation class	н	н	н	н	н	н	н	н	н	Н
	Weight of ACG (Kgs)	270	270	310	390	390	390	440	580	580	645

Technical Data - Freedom Series

	Make	Amron/Reputed	Amron/Reputed	Amron/Reputed	Amron/Reputed	Amron/Reputed	Amron/Reputed					
	Туре	MAINTENANCE FREE										
BATTERY	Rating (AH)	80	80	80	80	80	80					
DATTER	Quantity (Nos.)	1	1	1	1	1	1					
	Charging Facility	Charging Alternator										
	Battery metering	Ammeter, Voltmeter built in BLISS EAR Monitor										
	Silencer type			Res	sidential							
EXHAUST SYSTEM	Location	on Hot Air Chamber										
	Exhaust pipe size in mm	75	75	75	75	75	75					
FUEL TANK	Туре	Drag type in base frame										
TOLL TAIN	Capacity (Itrs)	50	50	65	75	75	75					
	Туре	BOLTED										
	Sheet metal	CRCA										
CANOPY	Draft	Forced										
	Insulation	Fire retardent FOAM										
	Noise level at 1 m			75 dBA @ 1 Meter i	in line with CPCB norms							
	Base frame	Pressed CRCA Channel										
OTHER	AVMs Qty (Nos.)	4	4	4	4	4	4					
ITEMS	Emergency stop	YES	YES	YES	YES	YES	YES					
	Internal Lights	YES	YES	YES	YES	YES	YES					
Engine Pow	er Declared is at NTP.											
In view of th	e continuous product development the f	format furnished is subject	ct to revision and since p	ublished data is widely circ	ulated, responsibility of s	eeking update rests with the	user.					

Technical Data - Republic Series

	Make	Exide Genplus / Reputed	Exide Genplus / Reputed	Exide Genplus /Reputed	Exide Genplus / Reputed	Exide Genplus /Reputed	Exide Genplus / Reputed						
	Туре				MA	INTENANCE FRE	Ε						
BATTERY	Rating (AH)	80	80	90	90	90	90	90	90	90	90		
	Quantity (Nos.)	1	1	1	2	2	2	2	2	2	2		
	Charging Facility				С	harging Alternator							
	Battery metering				Ammeter, Voltm	eter built in BLISS	EAR Monitor						
	Silencer type Residential												
EXHAUST SYSTEM	Location	Hot Air Chamber											
	Exhaust pipe size in mm	90	90	90	115	115	115	115	165	165	165		
FUEL TANK	Туре	Drag type in base frame											
FUEL IANK	Capacity (Itrs)	100	100	100	140	140	200	200	300	300	300		
	Туре					BOLTED							
	Sheet metal	CRCA											
CANOPY	Draft	Forced											
	Insulation	Fire retardent FOAM											
	Noise level at 1 m				75 dBA @ 1 f	Meter in line with (CPCB norms						
	Base frame	Pressed CRCA Channel											
OT!!!!!	AVMs Qty (Nos.)	4	4	4	4	4	4	4	4	4	4		
OTHER ITEMS	Emergency stop	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES		
	Internal Lights	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES		
Engine Power D	eclared is at NTP.												
In view of the co	ntinuous product develop	ment the format furni	shed is subject to	revision and sind	e published data is	widely circulated,	responsibility o	seeking upda	ate rests with	the user.			

Technical Data - Other Key Components

	Туре	ASAS 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.						
CONTROL	Engine parameter monitoring display	On BLISS EAR monitor-Oil pressure, coolant temp. fuel level, battery voltage &charging status, engine speed						
PANEL	Functions	Auto Start/Stop, Emergency Stop, Cooling time, LCD Display, acknowledgment & Fault Reset.						
	Protection	Short Circuit, Over load MCB/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.						





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