

Technical Data - Freedom Series

DG SET	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
	Rated kW	10	12	16	20	24	26
	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
ENGINE	Model	SL2105ABD	SL2105ABD	G20-II	G25-II	G30-II	G30-II
	BHP	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 (litrs)	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
ALTERNATOR	Class of Governing	A	A	A	A	A	A
	Aspiration	NATURAL	NATURAL	NATURAL	TCI	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	15W 40 CF4	15W 40 CF4	15W 40 CF4	15W 40 CF4	15W 40 CF4	15W 40 CF4
	Oil sump capacity (litrs)	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	Liquid cool					
	Bare Radiator Coolant capacity (litrs)	3	3	6.40	10	10	10
	Coolant Capacity with engine Jacket (litrs)	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
	Type	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless
	kVA	12.5	15	20	25	30	32.5
	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)	150	150	162	162	180	180