

Technical Data - Republic Series

DG SET	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	KEC-C200-II
	Rating (kVA)	40	50	63	75	82.5	100	125	140	160	180	200
	Rated kW	32	40	50	60	66	80	100	112	128	144	160
	Rated Current (Amps)	56	70	88	104	115	139	174	195	222	250	278
	Length x Width x Height (mm)	2800x1100 x1650	2800x1100 x1650	2800x1100 x1650	3200x1200 x1700	3200x1200 x1700	3500x1200 x1750	3500x1200 x1750	4200x1400 x1900	4200x1400 x1900	4200x1400 x1900	4350x1450 x1900
	Total Dry Weight (Kgs)	1400	1500	1500	1800	1800	2000	2000	2500	2500	2700	3000
ENGINE	Model	497 TC76	497 TC75	497 TC74	3B5D-1C85RW	3B5D-1C85RW	4B5D-1C100RW	4B5D-1C113RW	6B5D-1C150RW	6B5D-1C150RW	6B5D-1C170RW	6B5D-1C190RW
	BHP	63	76	90	114	114	134	152	201	201	228	255
	No. of Cylinders	4	4	4	3	3	4	4	6	6	6	6
	RPM	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
	Bore (mm)	97	97	97	107	107	107	107	107	107	107	107
	Stroke (mm)	128	128	128	126	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	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	17.5:1
	SFC (gms/BHP-hr)	164	164	164	161	161	156	156	156	156	156	152
	Governor	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
	Class of Governing	A	A	A	A	A	A	A	A	A	A	A2
	Aspiration	TCIC	TCIC	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	Dry type	Dry type
	Fuel	HSD-ASTM D2	HSD-ASTM D2	HSD-ASTM D2	HSD-ASTM D2	HSD-ASTM D2	HSD-ASTM D2	HSD-ASTM D2	HSD-ASTM D2	HSD-ASTM D2	HSD-ASTM D2	HSD-ASTM D2
	Type of oil	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	15W 40 CH4	15W 40 CH4
	Oil sump capacity (ltrs)	9	9	9	6	6	8	8	11	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	< 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 Cooled	Liquid Cooled	Liquid Cooled	Liquid Cooled	Liquid Cooled	Liquid Cooled	Liquid Cooled	Liquid Cooled	Liquid Cooled	Liquid Cooled	Liquid Cooled
	Bare Radiator Coolant capacity (ltrs)	9	9	9	13	13	13	13	16	16	16	16
	Coolant Capacity with engine Jacket (ltrs)	3	3	3	16	16	17	17	22	22	22	22
	Engine Dry Weight (Kgs)	390	390	390	520	520	580	580	700	700	700	700
Electric Starting System	12V	12V	12 V	12 V	12 V	24V	24V	24V	24V	24V	24V	
ALTERNATOR	Make	KEC	KEC	KEC	KEC	KEC	KEC	KEC	KEC	KEC	KEC	KEC
	Model	4AB180L1	4AB200S1	4AB200M1	4AB225S1	4AB225S1	4AB225S1	4AB225M1	4AB280S1	4AB280S1	4AB280M1	4AB280M1
	Type	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless
	Rating (kVA)	40	50	63	75	82.5	100	125	140	160	180	200
	Voltage (V)	415	415	415	415	415	415	415	415	415	415	415
	No. of Phases	3	3	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	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	1500 / 50	1500 / 50
	Voltage Regulation	+/- 1%	+/- 1%	+/- 1%	+/- 1%	+/- 1%	+/- 1%	+/- 1%	+/- 1%	+/- 1%	+/- 1%	+/- 1%
	Enclosure	SPDP	SPDP	SPDP	SPDP	SPDP	SPDP	SPDP	SPDP	SPDP	SPDP	SPDP
	Insulation class	H	H	H	H	H	H	H	H	H	H	H
	Weight of ACG (Kgs)	270	270	310	390	390	390	440	580	580	645	645