

## Technical Details of Generating Set

Engine Model	ALGP W04D.E4	ALGP W04D.MK1 .E4	ALGP 6.65.E4	ALGP W04CT.E4	ALGP411T C.E4	ALGP 412TCA.E4	ALGP 680TC.E4
Power Output(ps)	43Ps. Cont	53.2 Ps. Cont	66.5 Ps. Cont	75.5 Ps. Cont	93 Ps. Cont	121 Ps. Cont	151 Ps. Cont
R.P.M.	1500	1500	1500	1500	1500	1500	1500
Intake System	Naturally Aspirated	Naturally Aspirated	Naturally Aspirated	Turbo Charged Inter Cooled	Turbo Charged	Turbo Charged Inter Cooled	Turbo Charged
Rating Standard	BS 5514	BS 5514	IS 10002	BS 5514	BS 5514	BS 5514	BS 5514
Recommended Alternator Rating (Kva)	30	40	55	62.5	75	100	125
Frequency (Hz)	50	50	50	50	50	50	50
Type of Governor	Mechanical – RSV type						
Cooling System	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled
Injection	Direct	Direct	Direct	Direct	Direct	Direct	Direct
Cylinders	4	4	6	4	6	6	6
Rotation	Anti-clockwise when viewed from flywheel end						
Bore(MM)	104	104	107.18	104	107.18	107.18	127
Stroke(MM)	118	118	120.65	113	120.65	12.065	146

Displacement (L)	4.009	4.009	6.54	3.839	6.54	6.54	11.1
Compression Ratio	17.9:1	17.9:1	17.5:1	17.5:1	17.25:1	17.25:1	15.8:1
Overall Dimensions DG Set (Silent DG Set Dimensions)							
Length(mm)	1700(2953)	1700(2953)	2120(3400)	1755(3100)	2120(3500)	2520(3500)	2520(3800)
Width (mm)	1000(1100)	1000(1100)	950(1550)	1000(1400)	950(1700)	1250(1700)	1250(1950)
Height (mm)	1150(2030)	1150(2030)	1450(2225)	1150(2235)	1450(2375)	1450(2595)	1650(2825)
Engine Rear End							
Flywheel-Housing	SAE-3	SAE-3	SAE-2	SAE-3	SAE-2	SAE-2	SAE-1
Flywheel	SAE-10	SAE-10	SAE-11.5	SAE-10	SAE-11.5	SAE-11.5	SAE-14
Dry Weight of Engine (kgs)	350	350	700	338	730	745	980
Lubrication System							
Sump Oil Capacity (litres)	7.5	7.5	11.5	7.5	11.0	11.5	19
Oil Spec to be used	APICF4+MB228.1 (SAE 15W40)						
Oil Consumption	<0.1% of FC	<0.1% of FC	<0.15% of FC	<0.1% of FC	<0.1% of FC	<0.1% of FC	<0.15% of FC
Fuel Consumption							
SFC Load (gm/pshr)	123	118	129	117	129	123	24
Diesel Spec to be used	IS 1460						

Electric System							
System Voltage (V)	12	12	24	12	24	24	24
Starter Motor Type	Pre-engaged	Pre-engaged	Axial	Pre-engaged	Axial	Axial	Axial