

Sr. No.	Genset Rated →	180kVA - Mech	180kVA - CRDI
A	Genset specification ↓		
1	Genset rating	Prime	Prime
2	Genset output (kVA/kWe)	180 / 144	180 / 144
3	Genset model	GPWII-PIV-180M	GPWII-PIV-180C
4	Gross engine Power (kWm)	178.8	178.8
5	Gross engine Power (HP)	243.3	243.3
6	Engine model	6G11TAG31	6G11TAG42
7	Aspiration / Cooling	TCAC	TCAC
8	No. of Cylinders / Arrangement	6 / inline	6 / inline
9	Displacement (L)	7.31	7.31
10	Bore x Stroke (mm)	108 X 133	108 X 133
11	Compression ratio	16.8	16.8
12	Rated RPM	1500	1500
13	Overspeed trip (RPM)	1650	1650
14	Governor type / DG Performance Class	Elec / G3	CRS / G3
15	Frequency Regulation	Isochronous	Isochronous
16	Air cleaner type / Qty	Dry / 01	Dry / 01
B	Exhaust system		
1	Max allowable backpressure before After-treatment (kPa)	13	13
2	Max allowable backpressure post After-treatment (kPa)	5	5
3	Exhaust temperature (Deg C)	530	530
4	Silencer type	NA	NA
5	Aftertreatment System	DOC+SCR+ASC	DOC+SCR+ASC
C	Engine electrical system		
1	Charging alternator VDC / Amps	12 V / 35 A	12 V / 35 A
2	Starter motor rated voltage (DC)	12	12
3	Battery voltage (DC) / Capacity (AH)	12V / 130 AH	12V / 130 AH
D	Fuel System		
1	Recommended fuel	IS 1460, HSD	IS 1460, HSD
2	Fuel tank capacity (L)	320	320
E	Fuel Consumption @ % load (LPH)(Including radiator fan + other accessories)⁽¹⁾		
1	LPH @ 100%	40.00	38.10
2	LPH @ 75%	30.10	28.50
F	Lubricating Oil System		
1	Lube oil sump capacity (L)	17.5	17.5
2	Lube oil change period (Hrs)	500	500
3	Lube oil consumption (% of SFC)	≤0.06%	≤0.06%
4	Lube oil filter type / Qty	Spin on / 01	Spin on / 01
5	Recommended lube oil grade	15W40, API CI4+	15W40, API CI4+
6	Recommended lube oil	Greaves Maxtherm	Greaves Maxtherm

GREAVES COTTON LIMITED

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Tel: +91 22 41711700 CIN: L99999MH1922PLC000987

G	Alternator Specification		
1	Alternator Make	CG	CG
2	Alternator kVA/KW	180 / 144	180 / 144
3	Voltage (3P)	415	415
4	Frequency (Hz)	50	50
5	Current (3P) (Amps)	250.2	250.2
6	Type	4P, rotating field	4P, rotating field
7	Voltage regulator	Automatic	Automatic
8	Voltage regulation -%	±1%	±1%
9	Insulation class	H	H
10	Temperature rise (Deg C)	125	125
11	Bearing (Qty / type)	1, sealed	1, sealed
12	Coupling	Flex disc	Flex disc
13	Unbalanced load capability	25% of rated amps	25% of rated amps
H	Cooling System		
1	Max ambient capability (Deg C)	50	50
2	Coolant capacity (Eng + Rad) (L)	35	35
I	Controller		
1	Controller Model	DSE 6120 MKIII	DSE 6120 MKIII
J	DEF System		
1	Recommended fuel	ISO 22241, DIN-70070	ISO 22241, DIN-70070
2	DEF Tank Capacity (L)	40	40
K	DEF Consumption		
1	LPH @ 100%	2.0	1.9
2	LPH @ 75%	1.5	1.4
L	Genset Outer Dimensions		
1	Length(L) X Width(W) X Height(H) (mm)	4300 x 1600 x 2250	4300 x 1600 x 2250
2	Dry Weight (Approx.) (kg)	2220	2220
	Disclaimer:		
	- Ref.: ⁽¹⁾Fuel consumption @ 0.85 Specific Gravity with 5% Tolerance, DEF consumption : 5% of FC - PRIME POWER RATING as per ISO 8528 - Conformance standards: Engine - BS 5514, ISO 3046, Alternator - IS 13364 (Part - II), Genset - ISO 8528 and Tolerances as applicable. Please refer our GA drawing for overall dimension with add on components like silencer, ducts etc. - Product specifications are subject to change without prior notice due to the policy of continuous improvement. - Others make alternator also available – Please consult application engineering department - DG complying CPCBIV+ norms		

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