

Sr. No.	Genset Rated →	180kVA - Mech	180kVA - CRDI
<b>A</b>	<b>Genset specification ↓</b>		
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>B</b>	<b>Exhaust system</b>		
1	Max allowable backpressure (kPa)	13	13
2	Exhaust temperature ( Deg C)	530	530
3	Silencer type	NA	NA
4	Aftertreatment System	DOC+SCR+ASC	DOC+SCR+ASC
<b>C</b>	<b>Engine electrical system</b>		
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
<b>D</b>	<b>Fuel System</b>		
1	Recommended fuel	IS 1460, HSD	IS 1460, HSD
2	Fuel tank capacity (L)	320	320
<b>E</b>	<b>Fuel Consumption @ % load (LPH)(Including radiator fan + other accessories)<sup>(1)</sup></b>		
1	LPH @ 100%	40.00	38.10
2	LPH @ 75%	30.10	28.50
<b>F</b>	<b>Lubricating Oil System</b>		
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

<b>G Alternator Specification</b>			
1	Alternator Make	MECCALTE	MECCALTE
2	Voltage (3P)	415	415
3	Frequency (Hz)	50	50
4	Current (3P) (Amps)	250.2	250.2
5	Type	4P, rotating field	4P, rotating field
6	Voltage regulator	Automatic	Automatic
7	Voltage regulation -%	±1%	±1%
8	Insulation class	H	H
9	Temperature rise (Deg C)	125	125
10	Bearing (Qty / type)	1, sealed	1, sealed
11	Coupling	Flex disc	Flex disc
12	Unbalanced load capability	25% of rated amps	25% of rated amps
<b>H Cooling System</b>			
1	Max ambient capability (Deg C)	50	50
2	Coolant capacity (Eng + Rad) (L)	35	35
<b>I Controller</b>			
1	Controller Model	DSE 6120 MKIII	DSE 6120 MKIII
<b>J DEF System</b>			
1	Recommended fuel	ISO 22241, DIN-70070	ISO 22241, DIN-70070
2	DEF Tank Capacity (L)	40	40
<b>K DEF Consumption</b>			
1	LPH @ 100%	2.0	1.9
2	LPH @ 75%	1.5	1.4
<b>L Genset Outer Dimensions</b>			
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
<b>Disclaimer:</b>			
<ol style="list-style-type: none"> <li>1. Ref.: <sup>(1)</sup>Fuel consumption @ 0.85 Specific Gravity with 5% Tolerance, DEF consumption : 5% of FC</li> <li>2. PRIME POWER RATING as per ISO 8528</li> <li>3. 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.</li> <li>4. Product specifications are subject to change without prior notice due to the policy of continuous improvement.</li> <li>5. Others make alternator also available – Please consult application engineering department</li> </ol>			

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