

Sr. No.	Genset Rated →	500kVA - Mech
A	Genset specification ↓	
1	Genset rating	Prime
2	Genset output (kVA/kWe)	500 / 400
3	Genset model	GPWII-PIV-500M
4	Gross engine Power (kWm)	444
5	Gross engine Power (HP)	604.1
6	Engine model	12V14TAG31
7	Aspiration / Cooling	TCAC
8	No. of Cylinders / Arrangement	12 / V-Type
9	Displacement (L)	16.8
10	Bore x Stroke (mm)	115 X 135
11	Compression ratio	16.8
12	Rated RPM	1500
13	Overspeed trip (RPM)	1650
14	Governor type / DG Performance Class	Elec / G3
15	Frequency Regulation	Isochronous
16	Air cleaner type / Qty	Dry / 02
B	Exhaust system	
1	Max allowable backpressure before After-treatment (kPa)	15
2	Max allowable backpressure post After-treatment (kPa)	5
3	Exhaust temperature (Deg C)	550
4	Silencer type	NA
5	Aftertreatment System	DOC+SCR+ASC
C	Engine electrical system	
1	Charging alternator VDC / Amps	24 V / 44 A
2	Starter motor rated voltage (DC)	24
3	Battery voltage (DC) / Capacity (AH)	12V / 180 AH X 2
D	Fuel System	
1	Recommended fuel	IS 1460, HSD
2	Fuel tank capacity (L)	740
E	Fuel Consumption @ % load (LPH)(Including radiator fan + other accessories)⁽¹⁾	
1	LPH @ 100%	105.00
2	LPH @ 75%	79.00
F	Lubricating Oil System	
1	Lube oil sump capacity (L)	50
2	Lube oil change period (Hrs)	500
3	Lube oil consumption (% of SFC)	≤0.06%
4	Lube oil filter type / Qty	Spin on / 02
5	Recommended lube oil grade	15W40, API CI4+
6	Recommended lube oil	Greaves Maxtherm

GREAVES COTTON LIMITED

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Registered Office: J-2, MIDC Industrial Area, Chikalthana, Aurangabad - 431210, India

Corporate Office: Unit No.1A, 5th Floor, Tower 3, Equinox Business Park, LBS Marg, Kurla West, Mumbai - 400070, India

Tel: +91 22 41711700 CIN: L99999MH1922PLC000987

G	Alternator Specification	
1	Alternator Make	CG
2	Alternator kVA/KW	500 / 400
3	Voltage (3P)	415
4	Frequency (Hz)	50
5	Current (3P) (Amps)	695.6
6	Type	4P, Rotating field
7	Voltage regulator	Automatic
8	Voltage regulation -%	±1%
9	Insulation class	H
10	Temperature rise (Deg C)	125
11	Bearing (Qty / type)	1, sealed
12	Coupling	Flex disc
13	Unbalanced load capability	25% of rated amps
H	Cooling System	
1	Max ambient capability (Deg C)	50
2	Coolant capacity (Eng + Rad) (L)	120
I	Controller	
1	Controller Model	DSE 6120 MKIII
J	DEF System	
1	Recommended fuel	ISO 22241, DIN-70070
2	DEF Tank Capacity (L)	60
K	DEF Consumption	
1	LPH @ 100%	5.3
2	LPH @ 75%	4.0
L	Genset Outer Dimensions	
1	Length(L) X Width(W) X Height(H) (mm)	5615 X 2000 X 2965
2	Dry Weight (Approx.) (kg)	5650
	Disclaimer:	
	1. Ref.: ⁽¹⁾Fuel consumption @ 0.85 Specific Gravity with 5% Tolerance, DEF consumption : 5% of FC 2. PRIME POWER RATING as per ISO 8528 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. 4. Product specifications are subject to change without prior notice due to the policy of continuous improvement. 5. Others make alternator also available – Please consult application engineering department 6. DG complying CPCB IV+ Norms	

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