

Sr. No.	Genset Rated →	500kVA - Mech
<b>A</b>	<b>Genset specification ↓</b>	
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>B</b>	<b>Exhaust system</b>	
1	Max allowable backpressure (kPa)	15
2	Exhaust temperature ( Deg C)	550
3	Silencer type	NA
4	Aftertreatment System	DOC+SCR+ASC
<b>C</b>	<b>Engine electrical system</b>	
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
<b>D</b>	<b>Fuel System</b>	
1	Recommended fuel	IS 1460, HSD
2	Fuel tank capacity (L)	740
<b>E</b>	<b>Fuel Consumption @ % load (LPH)(Including radiator fan + other accessories)<sup>(1)</sup></b>	
1	LPH @ 100%	105.00
2	LPH @ 75%	79.00
<b>F</b>	<b>Lubricating Oil System</b>	
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

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G	Alternator Specification	
1	Alternator Make	LS
2	Voltage (3P)	415
3	Frequency (Hz)	50
4	Current (3P) (Amps)	695.6
5	Type	4P, rotating field
6	Voltage regulator	Automatic
7	Voltage regulation -%	±1%
8	Insulation class	H
9	Temperature rise (Deg C)	125
10	Bearing (Qty / type)	1, sealed
11	Coupling	Flex disc
12	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
	<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>	