

| Sr. No.  | Genset Rated →                                                                                   | 400kVA - Mech    |
|----------|--------------------------------------------------------------------------------------------------|------------------|
| <b>A</b> | <b>Genset specification ↓</b>                                                                    |                  |
| 1        | Genset rating                                                                                    | Prime            |
| 2        | Genset output (kVA/kWe)                                                                          | 400 / 320        |
| 3        | Genset model                                                                                     | GPWII-PIV-400M   |
| 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 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      |
| <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%                                                                                       | 85.00            |
| 2        | LPH @ 75%                                                                                        | 63.00            |
| <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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CG                   |
| 2  | Alternator kVA/KW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 400 / 320            |
| 3  | Voltage (3P)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 415                  |
| 4  | Frequency (Hz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 50                   |
| 5  | Current (3P) (Amps)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 556.48               |
| 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%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 4.3                  |
| 2  | LPH @ 75%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3.2                  |
| L  | Genset Outer Dimensions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                      |
| 1  | Length(L) X Width(W) X Height(H) (mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5615 X 2000 X 2965   |
| 2  | Dry Weight (Approx.) (kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5550                 |
|    | <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> <li>6. DG complying CPCB IV+ Norms</li> </ol> |                      |

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