

| Max. Power kW(HP) / rpm | Max. Torque N.m(kg.m) / rpm | After-treatment |
|-------------------------|-----------------------------|-----------------|
| 55.4(74.3) / 2600 | 360(36.7) / 1400 | DOC + DPF |

CERTIFIED
STAGE V



◆ General Engine Data

| | |
|------------------------|--|
| • Engine Type | In-line, 4-cycle |
| • Number of Cylinders | 4 |
| • Displacement | 3.409 liter |
| • Bore x Stroke | 98 x 113 mm |
| • Compression Ratio | 18.0 : 1 |
| • Firing Order | 1 - 3 - 4 - 2 |
| • Aspiration | Turbocharged and air-to-air aftercooled |
| • Combustion System | Direct injection |
| • Rotation | Counter clockwise viewed from Flywheel |
| • Clutch | SAE#3 - 11/5" / SAE#4 - 10" (SAE J620) |
| • Dry weight | 390 kg (with after-treatment) |
| | 485 kg (with powerpack) |
| • Front PTO | 100% Engine torque available at 2300 rpm |
| • Side PTO (1st / 2nd) | Continuous 130Nm / 200Nm (SAE A) |
| • Valve System Type | Over head valve |
| • Number of Valves | Intake 2, exhaust 2 per cylinder |
| | Hydraulic Valve Lash Adjust |

◆ Electrical System

| | |
|---------------------|-----------------------------------|
| • Alternator | 12V x 110A / 12V x 140A / 24V 80A |
| • Voltage Regulator | Built-in type IC regulator |
| • Starting Motor | 12V x 2.5kW / 24V x 5.0kW |
| • Battery Voltage | 12V / 24V |
| • Battery Capacity | 100 Ah, 750CCA (recommended) |
| • Starting Aid | Glow plug |

◆ Fuel System

| | |
|----------------------|-----------------------------------|
| • Injection pump | Bosch Common-rail Pump |
| • Governor | Controlled by ECU |
| • Fuel filter | Full flow, cartridge type |
| • Used fuel | Ultra-Low Sulfur Diesel, HVO, GTL |
| • Diesel consumption | 228 g/kWh@2600, 209 g/kWh@1400 |

◆ Lubrication System

| | |
|--------------------|-------------------------------|
| • Oil filter | Full flow, cartridge type |
| • Oil pan capacity | High level 12.6 liters |
| | Low level 6.0 liters |
| • Angularity limit | 35 deg all around |
| • Lubrication oil | 10W30/40 (API CK-4 / ACEA E6) |
| • Maximum oil temp | 135°C at main oil gallery |
| • Lub oil pressure | Idle Speed : Min 100 kPa |

◆ Engineering Data

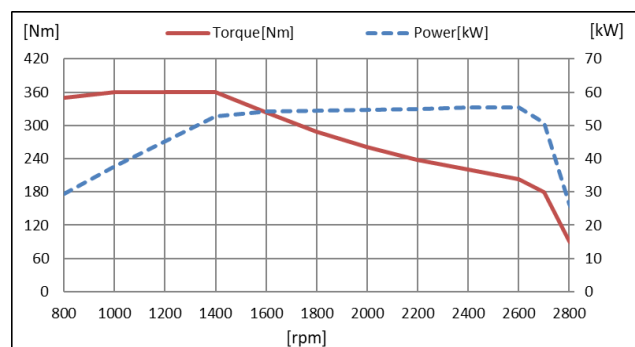
| | |
|-----------------------------------|--------------------------------------|
| • Water flow | 135 liters/min @2,600 rpm |
| • Heat Rejection | |
| - to coolant | 12.7 kcal/sec @2,600 rpm |
| - to CAC | 1.4 kcal/sec @2,600 rpm |
| • Air flow | 7,680 liter/min @2,600 rpm |
| • Exhaust gas temp | 750 °C↓ @2,600 rpm |
| • Maximum Permission Restrictions | |
| - Intake system | 3.0 kPa clean / 6.5 kPa dirty filter |
| - Exhaust system | 27 kPa max. |

◆ Cooling System

| | |
|---------------------|---------------------------------|
| • Cooling method | Fresh water forced circulation |
| • Water capacity | 4.7 liter (engine only) |
| | 11.1 liter (with powerpack) |
| • Water pump | Centrifugal type driven by belt |
| • Cooling fan | Suction/Blower type, Ø460 |
| • Water temperature | 110°C (max.) |

◆ Performance Curve

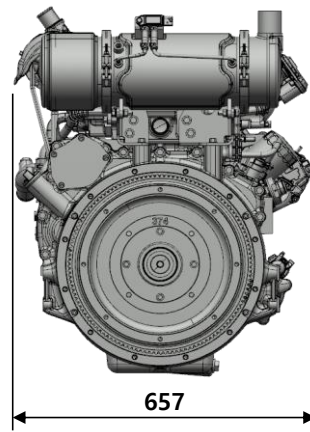
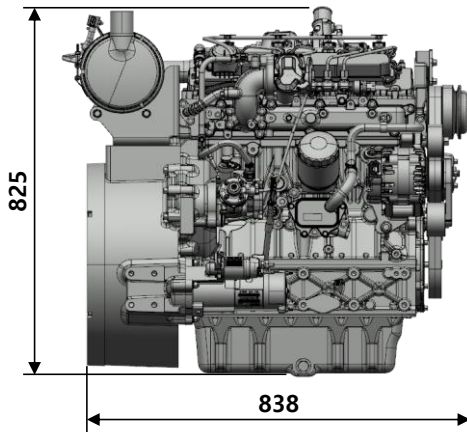
Output : Gross Intermittent SAE J1995



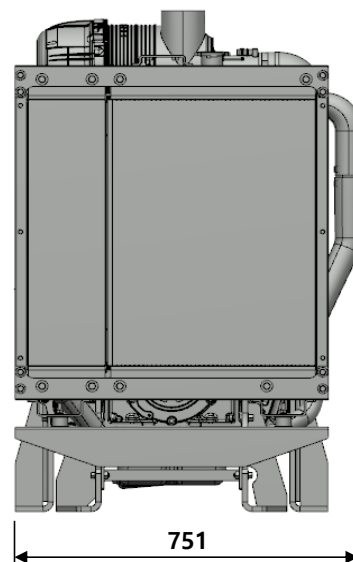
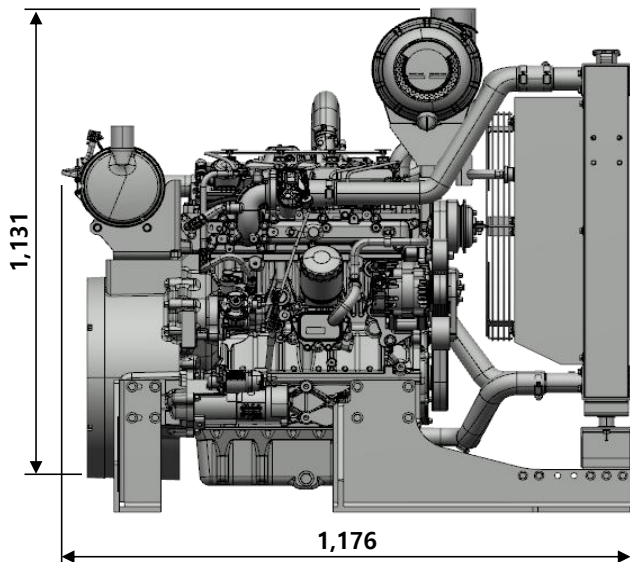
| Speed rpm | Power | | | Torque | |
|-----------|-------|------|------|--------|------|
| | kW | PS | HP | Nm | kgm |
| 800 | 29.3 | 39.9 | 39.3 | 350.0 | 35.7 |
| 1000 | 37.7 | 51.3 | 50.6 | 360.0 | 36.7 |
| 1200 | 45.2 | 61.5 | 60.7 | 360.0 | 36.7 |
| 1400 | 52.8 | 71.8 | 70.8 | 360.0 | 36.7 |
| 1600 | 54.1 | 73.6 | 72.6 | 323.0 | 33.0 |
| 1800 | 54.5 | 74.1 | 73.1 | 289.3 | 29.5 |
| 2000 | 54.7 | 74.3 | 73.3 | 261.0 | 26.6 |
| 2200 | 54.8 | 74.5 | 73.5 | 238.0 | 24.3 |
| 2400 | 55.3 | 75.2 | 74.1 | 220.0 | 22.4 |
| 2600 | 55.4 | 75.3 | 74.3 | 203.5 | 20.8 |
| 2800 | 26.4 | 35.9 | 35.4 | 90.0 | 9.2 |

◆ Engine Dimension

- Dimension (L×W×H) 838 × 657 × 825 mm



- Dimension (L×W×H) : 1,176 × 751 × 1,131 mm



◆ Conversion Table

| | | |
|------------------------------------|-------------------------|------------------------------------|
| in. = mm x 0.0394 | hp = PS x 0.98635 | kW = 0.2388 kcal/s |
| PS = kW x 1.3596 | lb = kg x 2.20462 | lb/PS.h = g/kW.h x 0.00162 |
| psi = kg/cm ² x 14.2233 | lb/ft = N.m x 0.737 | cfm = m ³ /min x 35.336 |
| in ³ = lit. x 61.02 | U.S. gal = lit. x 0.264 | |

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