

◎ Production Tolerance : ±5%

Intermittent rating kW(HP) / rpm	Max. torque N.m(kg.m) / rpm	Aftertreatment
294 (400) / 2000	1695 (173) / 1200	TWC (Three Way Catalyst)
250 (340) / 2000	1373 (140) / 1200	
228 (310) / 2000	1226 (125) / 1200	



### ◎ General Specification

○ Engine Model	GX12P
○ Engine Type	In-line, 4 Cycle, Water Cooled Turbocharged & Intercooled
○ Injection System	Electronic Common Rail
○ Cylinder Type	Replaceable dry liner
○ Number of Cylinders	6
○ Bore x stroke	123 x 155 mm
○ Displacement	11.1L
○ Compression ratio	12.0 : 1
○ Firing order	1-5-3-6-2-4
○ Dry weight	1,100 kg (Engine only)
○ Dimension	1,359 x 1,112 x 1,189 mm
○ Rotation	CCW viewed from Flywheel
○ Breather System	CCV (Super Impactor)
○ No Load Max Engine Speed	2,200 +/- 25rpm
○ No Load Min Engine Speed	600 +/- 25rpm
○ Air Compressor Capacity	636cc/rev (Twin)

### ◎ Valve System

○ Type	Over Head Valve
○ Number of Valve	Intake 2, Exhaust 2 per Cylinder
○ Valve Lashes at Cold	Intake 0.4mm Exhaust 0.5mm

### ◎ Ignition System

○ Ignition Coil	Inductive Coil Pack
○ Ignition Type	One coil per Cylinder

### ◎ Fuel System

○ System	Air-fuel mixer and Throttle valve
○ Governor	E.C.U (Woodward_OH6)
○ Control	Air-fuel Ratio feed-back control
○ Injector	PWN Type Solenoid Valve
○ Mixer	Single Point Air-fuel Mixer
○ Used fuel	CNG

### ◎ Lubrication System

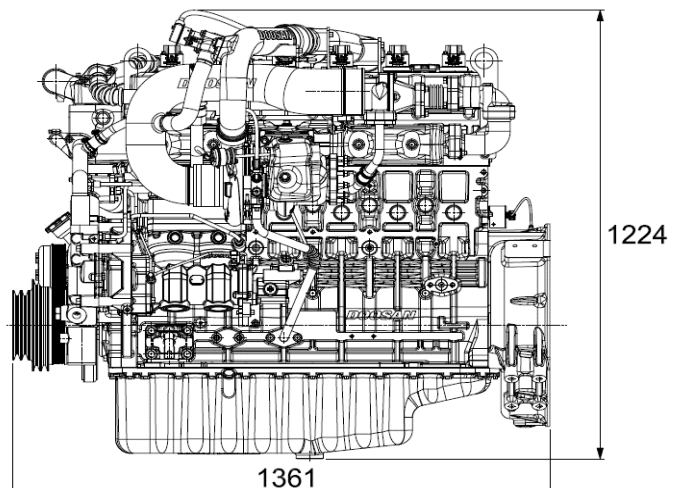
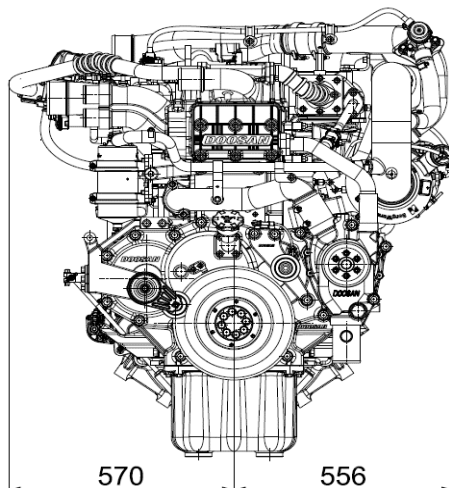
○ Lub. Method	Fully forced pressure feed Type
○ Oil pump	Gear Type driven by crankshaft
○ Oil filter	Full flow, Catridge Type
○ Oil pan capacity	High level 32 liters Low level 15 liters
○ Lub. Oil	SAE 15W40(CNG), 10W50(CNG)

### ◎ Cooling System

○ Cooling method	Fresh water forced circulation
○ Water capacity	42.2 liters (Engine only)
○ Water pump Capacity	540 liters/min at 2,000rpm
○ Thermostat	Wax – Pellet Type

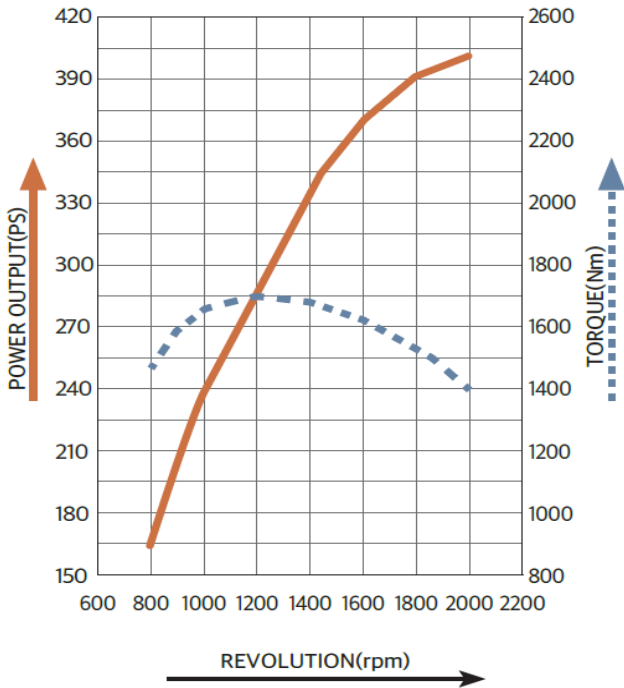
### ◎ Electrical System

○ Alternator	N/A (Vehicle Parts)
○ Starting motor	24V x 6.0kW
○ Battery Voltage	24V
○ Battery Capacity	150AH x 2ea (recommended)

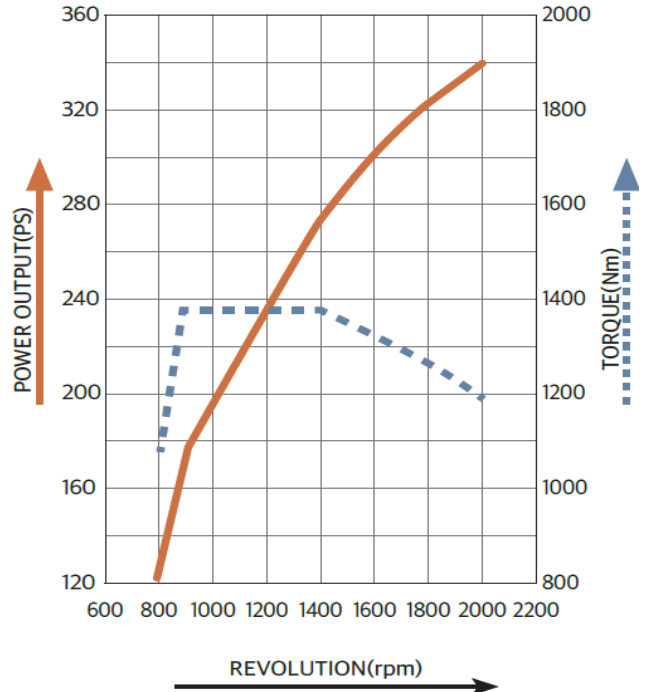


## ⊙ Performance Curve

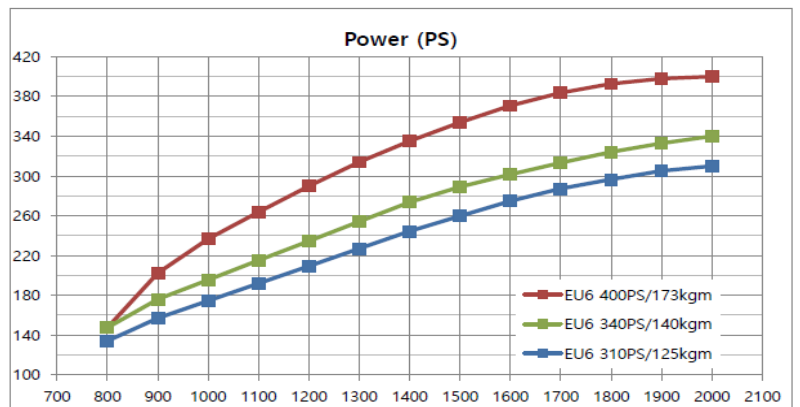
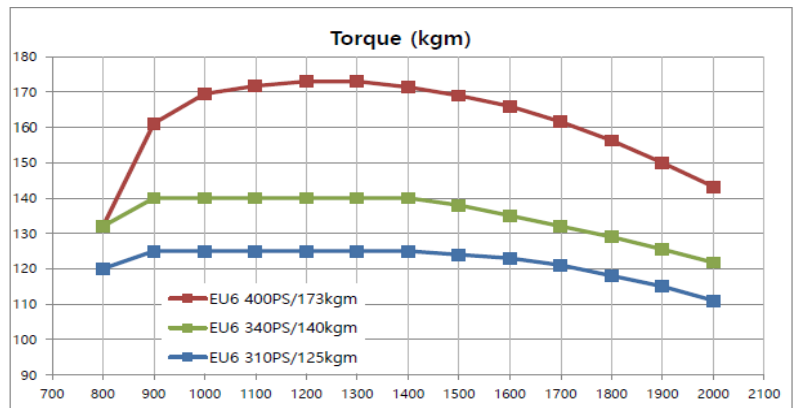
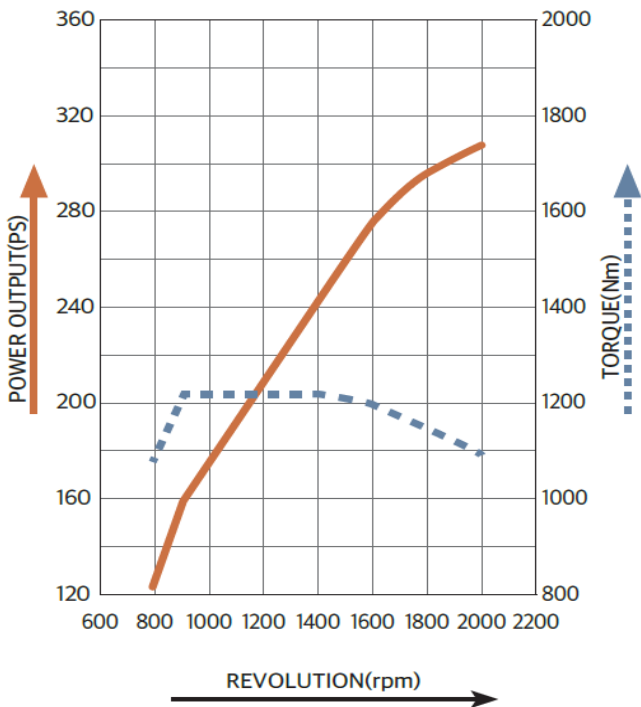
○ 294kW (400PS) / 1695Nm



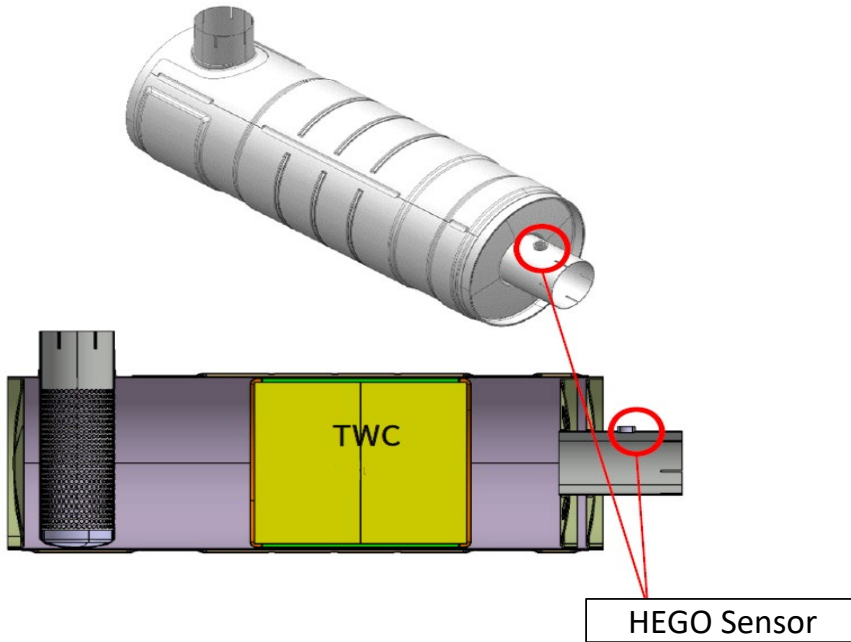
○ 250kW (340PS) / 1373Nm



○ 227kW (310PS) / 1226Nm



## © Aftertreatment System



### **Head office**

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### **Sales office (Engine)**

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※ Specifications are subject to change without prior notice