◎ POWER RATING

Intermittent rating kW(PS) / rpm	Max. torque N.m(kg.m) / rpm	Fuel consumption g/kW.h(g/PS.h) / rpm
397 (540) / 2100	2117 (216) / 1500	222 (163) / 2100

1. The engine performance corresponds to ISO 3046, DIN 6270B.
2. If needs continuous duty, Engine power is restricted to 353kW(480ps) @1800rpm.

◎ MECHANICAL SYSTEM

○ Engine Model	PU158TI
○ Engine Type	V-type 4 cycle, water cooled Turbo charged & intercooled
○ Combustion type	Direct injection
○ Cylinder Type	Replaceable wet liner
○ Number of cylinders	8
○ Bore x stroke	128(5.04) x 142(5.59) mm(in.)
○ Displacement	14.618(892.0) lit.(in^3)
○ Compression ratio	15 : 1
○ Firing order	1-5-7-2-6-3-4-8
○ Injection timing	18° BTDC
○ Dry weight	Approx. 950 kg (2,094 lb)
○ Dimension (LxWxH)	1,484 x 1,389 x 1,161.5 mm (58.4 x 54.7 x 45.7 in.)
○ Rotation	Counter clockwise viewed from Flywheel
○ Fly wheel housing	SAE NO.1M
○ Fly wheel	Clutch NO.14M

◎ FUEL SYSTEM

○ Injection pump	Bosch in-line "P" type
○ Governor	Mechanical type
○ Feed pump	Mechanical type
○ Injection nozzle	Multi hole type
○ Fuel filter	Full flow, cartridge type
○ Used fuel	Diesel fuel oil

◎ LUBRICATION SYSTEM

○ Lub. Method	Fully forced pressure feed type
○ Oil pump	Gear type driven by crankshaft
○ Oil filter	Full flow, cartridge type
○ Oil pan capacity	High level 21 liters (5.55 gal.) Low level 17 liters (4.50 gal.)
○ Angularity limit	Front down 35 deg. Front up 35 deg. Side to side 35 deg.
○ Lub. Oil	Refer to Operation Manual

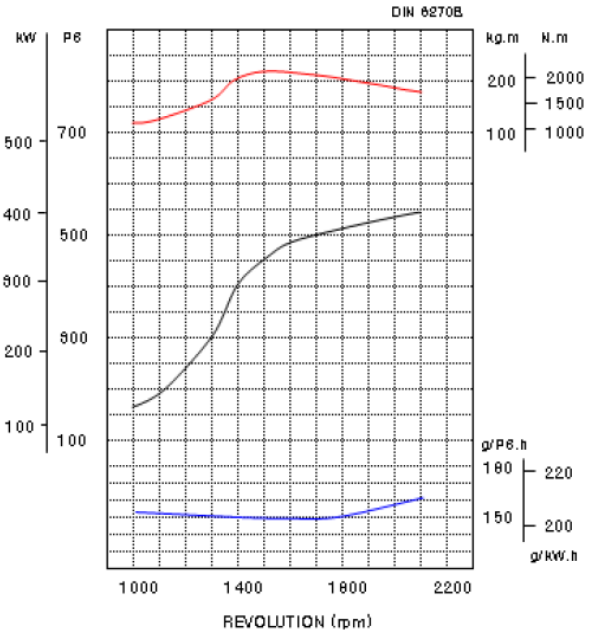
◎ MECHANISM

○ Type	Over head valve
○ Number of valve	Intake 1, exhaust 1 per cylinder
○ Valve lashes at cold	Intake 0.25mm (0.0098 in.) Exhaust 0.35mm (0.0138 in.)

◎ VALVE TIMING

	Opening	Close
○ Intake valve	24 deg. BTDC	36 deg. ABDC
○ Exhaust valve	63 deg. BBDC	27 deg. ATDC

◎ PERFORMANCE CURVE



◎ OPTION & ACCESSORY PARTS

○ Engine parts	Fly wheel & housing Intake & exhaust manifold
○ Accessory parts	Raditor, silencer & air cleaner
○ Electrical parts	Gauge panel & stop solenoid

◎ COOLING SYSTEM

○ Cooling method	Fresh water forced circulation
○ Water capacity (engine only)	20 liters (5.28 gal.)
○ Pressure system	Max. 0.5 kg/cm^2 (7.1 psi)
○ Water pump	Centrifugal type driven by belt
○ Water pump Capacity	454 liters (120 gal.)/min at 2,100 rpm (engine)
○ Thermostat	Wax – pellet type Opening temp. 79°C Full open temp. 94°C
○ Cooling fan	Blower type, plastic 915 mm diameter, 7 blade

◎ ENGINEERING DATA

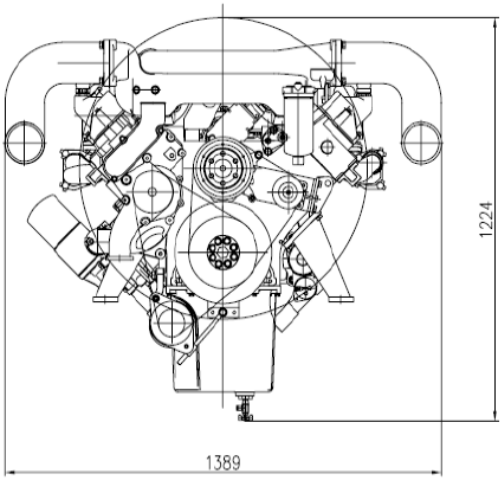
○ Water flow	454 liters/min @2,100 rpm
○ Heat rejection to coolant	45.2 kcal/sec @2,100 rpm
○ Heat rejection to CAC	18.8 kcal/sec @2,100 rpm
○ Air flow	34.5 m^3/min @2,100 rpm
○ Exhaust gas flow	87.4 m^3/min @2,100 rpm
○ Exhaust gas temp.	600 °C @2,100 rpm
○ Max. permissible restrictions	
-.Intake system	220 mmH_2O initial 635 mmH_2O final
-.Exhaust system	1000 mmH_2O max.

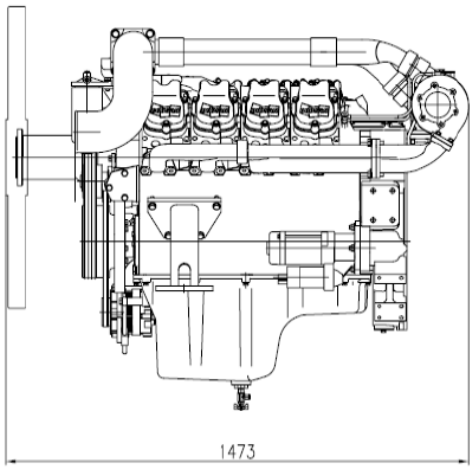
◎ ELECTRICAL SYSTEM

○ Charging generator	24V x 45A alternator
○ Voltage regulator	Built-in type IC regulator
○ Starting motor	24V x 7.0kW
○ Battery Voltage	24V
○ Battery Capacity	200 AH (recommended)
○ Starting aid (Option)	Block heater

◆ CONVERSION TABLE

in. = mm x 0.0394	lb/ft = N.m x 0.737
PS = kW x 1.3596	U.S. gal = lit. x 0.264
psi = kg/cm2 x 14.2233	kW = 0.2388 kcal/s
in3 = lit. x 61.02	lb/PS.h = g/kW.h x 0.00162
hp = PS x 0.98635	cfm = m^3/min x 35.336
lb = kg x 2.20462	





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