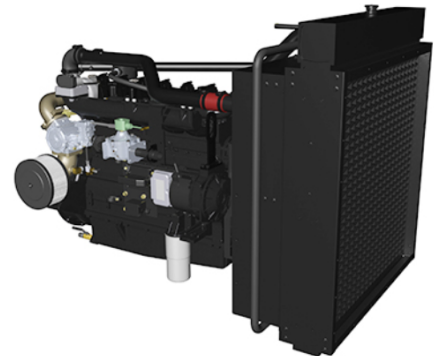


◎ POWER RATING

Engine Speed rev/min	Type of Operation	Engine Power	
		kWm	Ps
1800	Prime Power	150	204
	Standby Power	165	224
1500	Prime Power	128	174
	Standby Power	141	191



Note : -. The engine performance corresponds to ISO 3046, BS 5514 and DIN 6271.

* Without cooling fan, inter cooler inlet water temperature 32 °C

-. Ratings are based on ISO 8528.

→ **Prime power** available at variable load. The permissible average power out put (during 24h period) shall not exceed 70% of the prime power rating. No overload is permitted.

→ **Standby power** available in the event of a main power network failure. No overload is permitted.

◎ MECHANICAL SYSTEM

○ Engine Type	In-line 4 cycle, water cooled
	Turbo charged & intercooled (water to air)
○ Combustion type	Stoichiometric, Premixed and spark ignited
○ Cylinder Type	Replaceable dry liner
○ Number of cylinders	6
○ Bore x stroke	111(4.37) x 139(5.47) mm(in.)
○ Displacement	8.071 (492.52) lit.(in ³)
○ Compression ratio	10.5 : 1
○ Firing order	1-5-3-6-2-4
○ Ignition timing	13° BTDC
○ Compression pressure	Above 16 kg/cm ² (228 psi) at 200rpm
○ Dry weight	Approx. 820 kg (1,808 lb)
○ Dimension (LxWxH)	1,415 x 925 x 1,400 mm (56 x 37 x 56 in.)
○ Rotation	Counter clockwise viewed from Flywheel
○ Fly wheel housing	SAE NO.2
○ Fly wheel	Clutch NO.11 1/2

◎ MECHANISM

○ Type	Over head valve
○ Number of valve	Intake 1, exhaust 1 per cylinder
○ Valve lashes at cold	Intake 0.30mm (0.0118 in.) Exhaust 0.30mm (0.0118 in.)

◎ VALVE TIMING

	Opening	Close
○ Intake valve	16 deg. BTDC	36 deg. ABDC
○ Exhaust valve	46 deg. BBDC	14 deg. ATDC

◎ FUEL CONSUMPTION

○ Prime (Nm ³ /hr)	1,500 rpm	1,800 rpm
	25%	13.3
	50%	13.9
	75%	17.8
	100%	21.8
	24.3	29.9
	31.8	38.5
○ Standby (Nm ³ /hr)	1,500 rpm	1,800 rpm
	25%	12.8
	50%	15.7
	75%	20.1
	100%	25.4
	28.2	34.7
	36.0	42.3

◎ FUEL SYSTEM

○ Carburetor	Impco 200M Varifuel carburetor
○ Gas regulator	Maxitrol RV61
○ Max. inlet pressure	1.0 psi at the engine inlet

◎ 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 23 liters (6.08 gal.) Low level 17 liters (4.49 gal.)
○ Lub. Oil	Refer to Operation Manual Low ash type(0.5wt%) natural gas engine oil API service grade CD or higher SAE 15W-40

◎ COOLING SYSTEM

- Cooling method Fresh water forced circulation
- Water capacity 18 liters (4.76 gal.)
(engine only)
- Pressure system Max. 0.5 kg/cm² (7.1 psi)
- Water pump Centrifugal type driven by belt
- Cooling fan Blower, 660.4mm diameter, 7 blades
Plastic
- Loss power of fan 6.8PS (5kW) @ Eng. Speed 1,500 rpm
10.9PS (8kW) @ Eng. Speed 1,800 rpm
- Thermostat Wax – pellet type
Opening temp. 71°C
Full open temp. 85°C

◎ ELECTRICAL SYSTEM

- Charging generator 24V x 45A alternator
- Voltage regulator Built-in type IC regulator
- Starting motor 24V x 4.5kW
- Battery Voltage 24V
- Battery Capacity 150 AH (recommended)
- Ignition controller 12 or 24V DC
(min 8V DC at start, 32V DC max)

◎ IGNITION SYSTEM

- Spark plug NGK IFR7B-D, 0.4mm air gap
Champion RC78PYP, 0.38mm air gap
- Ignition controller Altronic CD 1 unit (12 or 24V DC)
- Ignition coil Altronic 501 061 blue epoxy individual
coil
- Trigger system Magnetic pick-up sensor and trigger
wheel and Hall-effect
(0.75 ~ -0.25mm air gap)

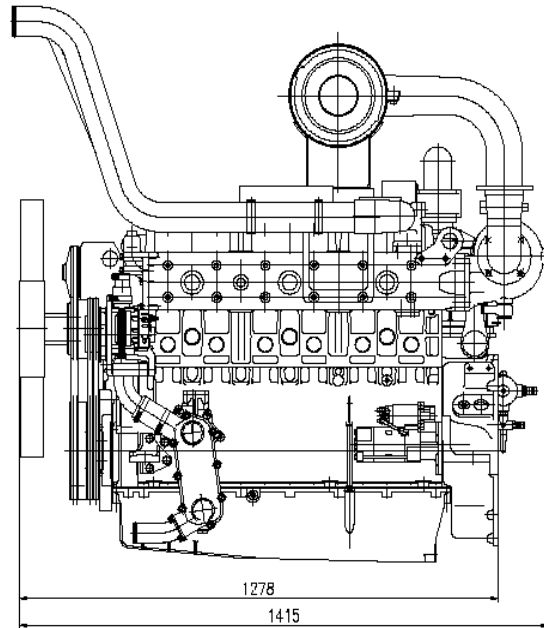
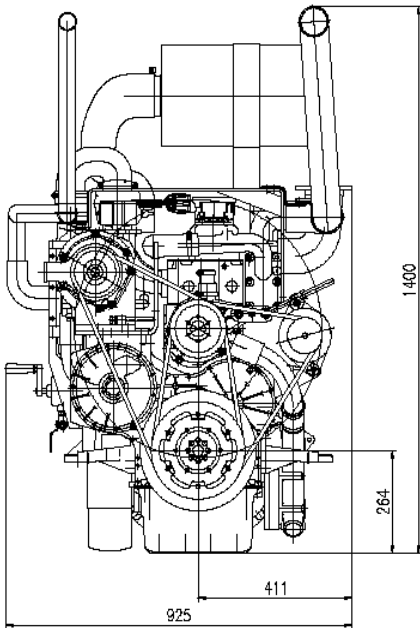
◎ ENGINEERING DATA

- Water flow 200 liters/min @1,500 rpm
240 liters/min @1,800 rpm
- Heat rejection to coolant 32.9 kcal/sec @1,500 rpm
39.3 kcal/sec @1,800 rpm
- Heat rejection to CAC 1.3 kcal/sec @1,500 rpm
2.6 kcal/sec @1,800 rpm
- Intercooler water flow 302.4 liters/min @1,500 rpm
362.9 liters/min @1,800 rpm
- Air flow 10.3 m³/min @1,500 rpm
12.5 m³/min @1,800 rpm
- Exhaust gas flow 16.5 m³/min @1,500 rpm
20.3 m³/min @1,800 rpm
- Exhaust gas temp. 540 °C @1,500 rpm
560 °C @1,800 rpm
- Radiator air flow 210 m³/min @1,500 rpm, 0.7kPa
270 m³/min @1,800 rpm, 1.0kPa
- Max. permissible restrictions
 - Intake system 220 mmH₂O initial
635 mmH₂O final
 - Exhaust system 600 mmH₂O max.
- Altitude Capability 1,000 m

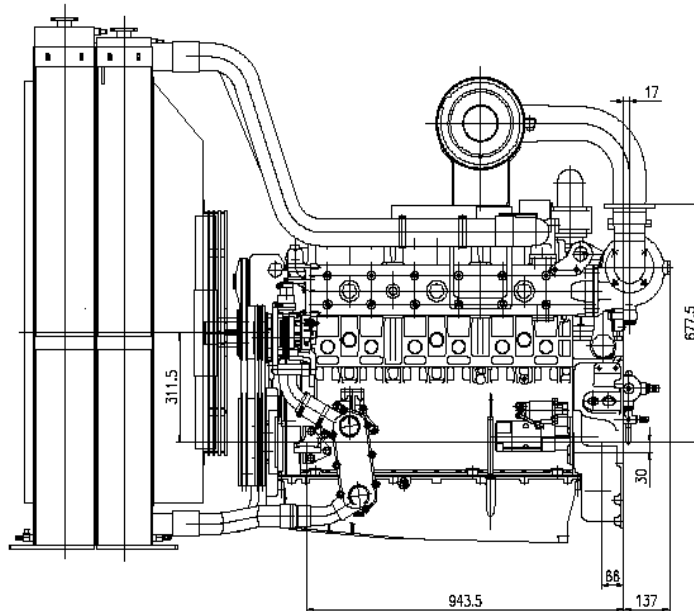
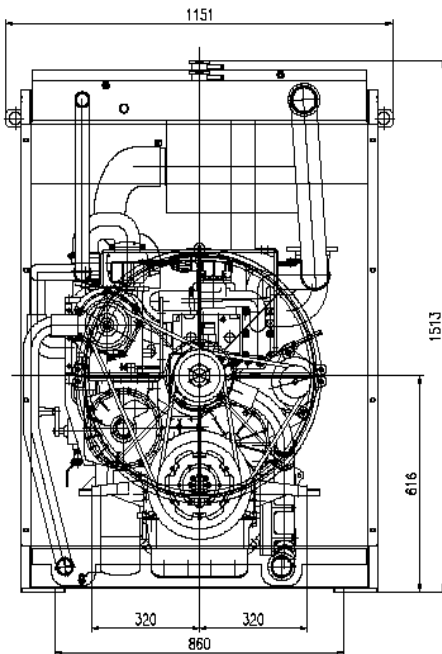
◆ CONVERSION TABLE

- | | |
|---|------------------------------------|
| 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/cm ² x 14.2233 | kW = 0.2388 kcal/s |
| in ³ = 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 | Nm ³ = SCF × 0.0283 |
| Kg/hr = Nm ³ /hr × 0.732 (natural gas) | |
| Btu/ft ³ = MJ/m ³ × 26.8392 (natural gas) | |
| kPa = 101.97 mmH ₂ O = 0.01 bar | |

© Dimensions : Engine



© Dimensions : Gen-pack



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※ Specifications are subject to change without prior notice