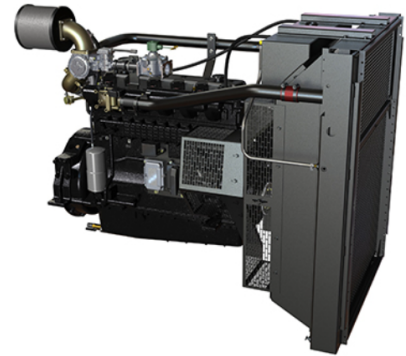


◎ POWER RATING

Engine Speed rev/min	Type of Operation	Engine Power	
		kWm	Ps
1800	Prime Power	200	272
	Standby Power	220	299
1500	Prime Power	175	238
	Standby Power	192	262



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	123(4.84) x 155(6.1) mm(in.)
○ Displacement	11.051 (674.5) 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. 1,010 kg (2,227 lb)
○ Dimension (LxWxH)	1,672 x 1,039 x 1,435 mm (66 x 41 x 57 in.)
○ Rotation	Counter clockwise viewed from Flywheel
○ Fly wheel housing	SAE NO.1
○ Fly wheel	Clutch NO.14

◎ 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	18 deg. BTDC	34 deg. ABDC
○ Exhaust valve	46 deg. BBDC	14 deg. ATDC

◎ FUEL CONSUMPTION

○ Prime (Nm ³ /hr)	1,500 rpm	1,800 rpm	
	25%	16.8	20.4
	50%	26.3	30.2
	75%	34.3	41.1
	100%	43.4	51.4
○ Standby (Nm ³ /hr)	1,500 rpm	1,800 rpm	
	25%	15.6	29.0
	50%	27.0	36.6
	75%	38.4	43.7
	100%	47.8	55.4

◎ 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 25 liters (6.60 gal.) Low level 19 liters (5.02 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 (engine only)	21 liters (5.55 gal.)
○ Pressure system	Max. 0.5 kg/cm ² (7.1 psi)
○ Water pump	Centrifugal type driven by belt
○ Cooling fan	Blower, 755mm diameter, 7 blades Plastic
○ Loss power of fan	9.5PS (7kW) @ Eng. Speed 1,500 rpm 15PS (11kW) @ 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 7.0kW
○ 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)

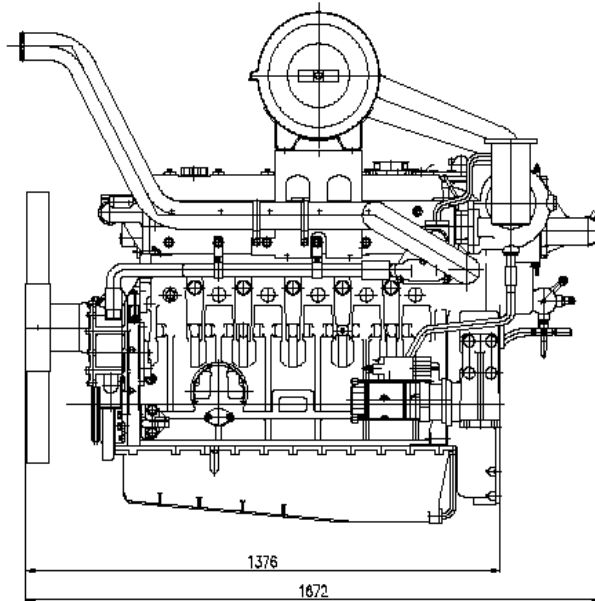
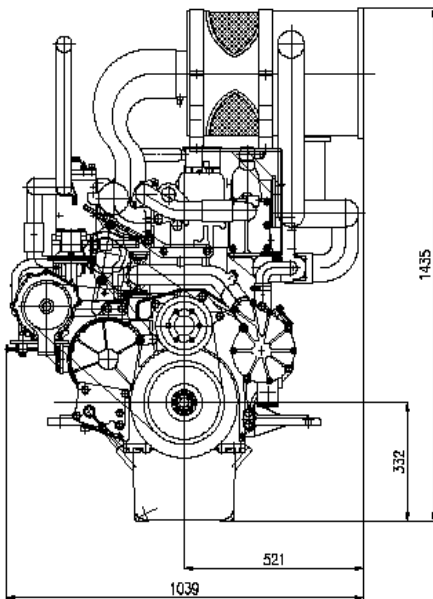
◎ ENGINEERING DATA

○ Water flow	260 liters/min @1,500 rpm 310 liters/min @1,800 rpm
○ Heat rejection to coolant	39.0 kcal/sec @1,500 rpm 46.5 kcal/sec @1,800 rpm
○ Heat rejection to CAC	1.8 kcal/sec @1,500 rpm 3.1 kcal/sec @1,800 rpm
○ Intercooler water flow	284 liters/min @1,500 rpm 390 liters/min @1,800 rpm
○ Air flow	13.0 m ³ /min @1,500 rpm 15.7 m ³ /min @1,800 rpm
○ Exhaust gas flow	23.0 m ³ /min @1,500 rpm 27.0 m ³ /min @1,800 rpm
○ Exhaust gas temp.	545 °C @1,500 rpm 566 °C @1,800 rpm
○ Radiator air flow	270 m ³ /min @1,500 rpm, 0.7kPa 360 m ³ /min @1,800 rpm, 1.0kPa
○ Max. permissible restrictions	
-Intake system	220 mmH ₂ O initial 635 mmH ₂ O final
-Exhaust system	600 mmH ₂ O max.
○ Altitude Capability	1,000 m

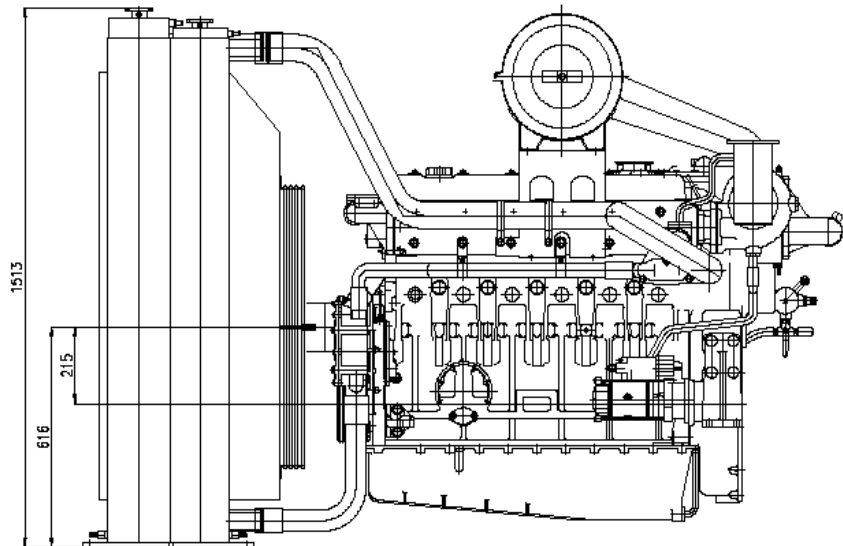
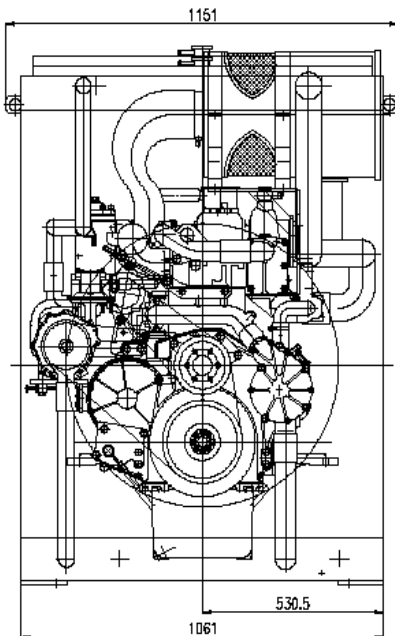
◆ CONVERSION TABLE

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