

GE08TI GEN-PACK

© POWER RATING

Engine	Type of	Engine Power		
Speed	· ·			
rev/min	Operation	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.

Intake 0.30mm (0.0118 in.)

Exhaust 0.30mm (0.0118 in.)

Close

36 deg. ABDC

14 deg. ATDC

Opening

46 deg. BBDC

16 deg. BTDC

- -. Ratings are based on ISO 8528.
- → **Prime power** available at variable load. The permissible average power out put (during 24h period) shell 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.

	$\bigcirc M$	ECHA	NICAL	SYSTEM
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© FUEL CONSUMPTION

○ Engine Type	In-line 4 cycle, water cooled	• Prime Power (Nm ³ /h	1,500 rpm	1,800 rpm
	Turbo charged & intercooled (water to air)	25%	13.3	13.9
○ Combustion type	Stoichiometric, Premixed and spark ignited	d 50%	17.8	21.8
O Cylinder Type	Replaceable wet liner	75%	24.3	29.9
 Number of cylinders 	6	100%	31.8	38.5
○ Bore x stroke	111(4.37) x 139(5.47) mm(in.)			
O 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	© FUEL SYSTEM		
○ Compression pressure	Above 16 kg/cm2(228 psi) at 200rpm	○ Carburetor Impco 200M Varifuel carburetor		
Ory weight	Approx. 820 kg (1,808 lb)	○ Gas regulator Maxitrol RV61		
O Dimension	1,415 x 925 x 1,400 mm	O Max. inlet pressure 1.0 psi at the engine inlet		
(LxWxH)	(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	© LUBRICATION SYSTEM		
		○ Lub. Method	Fully forced pre	ssure feed type
◎ MECHANISM		○ Oil pump	Gear type driver	n by crankshaft
○ Type	Over head valve	○ Oil filter	Full flow, cartri	dge type
O Number of valve	Intake 1, exhaust 1 per cylinder	Oil pan capacity	High level 23 li	ters (6.08 gal.)

○ Lub. Oil

Low level 17 liters (4.49 gal.)

Low ash type(0.5wt%) natural gas

API service grade CD or higher

Refer to Operation Manual

engine oil

SAE 15W-40

O Valve lashes at cold

© VALVE TIMING

O Intake valve

○ Exhaust valve



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© 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)

© 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

 \circ Air flow 10.3 m³/min @1,500 rpm

 $12.5 \text{ m}^3/\text{min } @ 1,800 \text{ rpm}$

○ 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

© 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

 $(0.75 \sim -0.25 \text{mm air gap})$

◆ CONVERSION TABLE

 $PS = kW \times 1.3596$ U.S. gal = lit. x 0.264

 $psi = kg/cm2 \times 14.2233$ kW = 0.2388 kcal/s

in3 = lit. x 61.02 lb/PS.h = g/kW.h x 0.00162

 $hp = PS \times 0.98635$ $cfm = m^3/min \times 35.336$

 $1b = kg \times 2.20462$ $Nm^3 = SCF \times 0.0283$

 $Kg/hr = Nm^3/hr \times 0.732$ (natural gas)

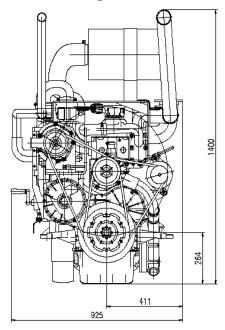
 $Btu/ft^3 = MJ/m^3 \times 26.8392$ (natural gas)

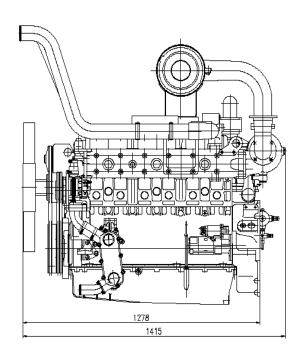
 $kPa = 101.97 \text{ mmH}_2O = 0.01 \text{ bar}$



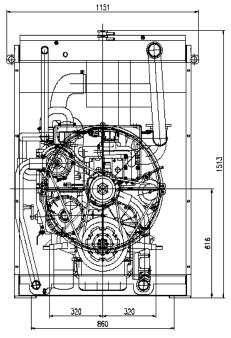
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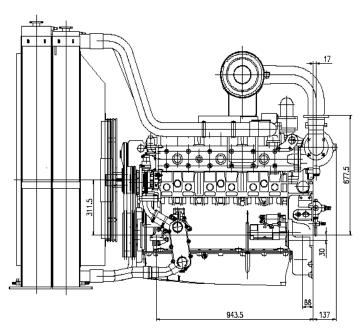
© Dimensions : Engine





© Dimensions : Gen-pack





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