

POWER RATING

Model	Engine Speed	Type of	Engine	Power
	rev/min		kWm	Ps
GE08TIS	1800	Prime Power	150	204
GE08TIF	1500	Prime Power	128	174

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

* Without cooling fan, inter cooler inlet water temperature 32

-. 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.

MECHANICAL S	YSTEM		FUEL CONSUM	PTION	
O Engine Type	In-line 4 cycle, water cooled	1	OPrime Power (Nm ³ /h	1,500 rpm	1,800 rpm
	Turbo charged & intercoole	d (water to air)	25%	13.3	13.9
O Combustion type	Stoichiometric, Premixed ar	nd spark ignited	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(i	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	e Above 16 kg/cm2(228 psi) at 200rpm		O Carburetor	Impco 200M Varifuel carburetor	
ODry 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 en	gine inlet
(LxWxH)	(56 x 37 x 56 in.)				
• Rotation	Counter clockwise viewed f	rom Flywheel			
• Fly wheel housing	SAE NO.2				
• Fly wheel	Clutch NO.11 1/2 LUBRICATION SYSTEM				
			OLub. Method	Fully forced pre	ssure feed type
MECHANISM			⁰ Oil pump	Gear type driver	n by crankshaft
O Type	Over head valve		• Oil filter	Full flow, cartrie	dge type
O Number of valve	Intake 1, exhaust 1 per cylinder		• Oil pan capacity	High level 23 lit	ters (6.08 gal.)
• Valve lashes at cold	Intake 0.30mm (0.0118 in	.)		Low level 17 lit	ers (4.49 gal.)
	Exhaust 0.30mm (0.0118 in	.)	◦Lub. Oil	Refer to Operati	on Manual
				Low ash type(0.	5wt%) natural gas
VALVE TIMING				engine oil	
	Opening C	lose		API service grad	le CD or higher
• Intake valve	16 deg. BTDC 36 deg	g. ABDC		SAE 15W-40	

14 deg. ATDC

46 deg. BBDC

O Exhaust valve



COOLING SYSTEM

• Cooling method	Fresh water forced circulation	
O Water capacity	18 liters (4.76 gal.)	
(engine only)		
O Pressure system	Max. 0.5 kg/cm ² (7.1 psi)	
• Water pump	Centrifugal type driven by belt	
• Cooling fan	Blower, 660.4mm diameter, 7 blades Plastic	
O Loss power of fan	6.8PS (5kW) @ Eng. Speed 1,500 rpm	
	10.9PS (8kW) @ Eng. Speed 1,800 rpm	1
O Thermostat	none	

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
O Heat rejection to CAC	1.3 kcal/sec @1,500 rpm
	2.6 kcal/sec @1,800 rpm
O Intercooler water flow	302.4 liters/min @1,500 rpm
	362.9 liters/min @1,800 rpm
• Air flow	10.3 m ³ /min @1,500 rpm
	12.5 m ³ /min @1,800 rpm
• Exhaust gas flow	16.5 m ³ /min @1,500 rpm
	20.3 m ³ /min @1,800 rpm
• Exhaust gas temp.	540 °C @1,500 rpm
	560 °C @1,800 rpm
• Radiator air flow	210 m ³ /min @1,500 rpm, 0.7kPa
	270 m ³ /min @1,800 rpm, 1.0kPa
O Max. permissible restriction	ns
Intake system	220 mmH ₂ O initial
	$635 \text{ mmH}_2\text{O} \text{ final}$
Exhaust system	$600 \text{ mmH}_2\text{O} \text{ max}.$
• Altitude Capability	1,000 m

ELECTRICAL SYSTEM

O Charging generator	24V x 45A alternator	
Voltage regulatorStarting motor	Built-in type IC regulator 24V x 4.5kW	• Max. permissible restriction Intake system
• Battery Voltage	24V	
O Battery Capacity	150 AH (recommended)	Exhaust system
O Ignition controller	12 or 24V DC (min 8V DC at start, 32V DC max)	• Altitude Capability

IGNITION SYSTEM

• Spark plug	NGK IFR7B-D, 0.4mm air gap	
	Champion RC78PYP, 0.38mm air gap	psi
O Ignition controller	Altronic CD 1 unit (12 or 24V DC)	in3
• Ignition coil	Altronic 501 061 blue epoxy individual	hp
	coil	lb =
O Trigger system	Magnetic pick-up sensor and trigger	Kg
	wheel and Hall-effect	Btu
	(0.75 ~ -0.25mm air gap)	kPa

CONVERSION TABLE

in. = mm x 0.0394	$lb/ft = N.m \ge 0.737$	
$PS = kW \ge 1.3596$	U.S. gal = lit. x 0.264	
psi = kg/cm2 x 14.2233	kW = 0.2388 kcal/s	
in3 = lit. x 61.02	$lb/PS.h = g/kW.h \ge 0.00162$	
$hp = PS \ge 0.98635$	$cfm = m^{3}/min x 35.336$	
$lb = kg \ge 2.20462$	$Nm^3 = SCF \times 0.0283$	
Kg/hr = Nm ³ /hr × 0.732 (natural gas)		
Btu/ft ³ = $MJ/m^3 \times 26.8392$ (natural gas)		
$kPa = 101.97 \text{ mmH}_2O = 0.01 \text{ bar}$		

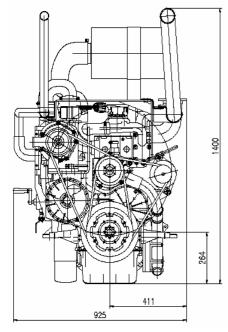


GE08TI GEN-PACK

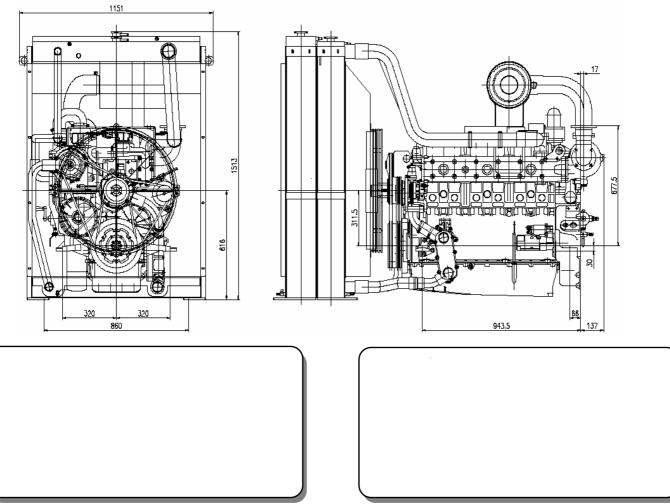
1278

1415

Dimensions : Engine



Dimensions : Gen-pack



Specifications are subject to change without prior notice