

\bigcirc Power

Engine Speed	Type of	Engine Power	Generator Power	
rpm	Operation	kW	kW	kVA
1500	Prime Power	39	32	40
	Standby Power	43	35	44
1800	Prime Power	42	35	44
	Standby Power	46	38.5	48

-. The engine performance is as per GB/T2820

-. Ratings are based on GB/T1147.1.

→ Prime Power: Power output available with varying load for unlimited time. The permissible average power output over 24 hours of operation shall not exceed 80% of the prime power rating.

→Standby Power: Power output available in the duration of an emergency outage or under test conditions, Maximum operation time is 200 hours per year. The permissible average power output over 24 hours of operation shall not exceed 80% of the standby power rating.

Overload operation is not allowed

© SPECIFICATIONS

\odot FUEL CONSUMPTION

• Engine Model	4ZT3.2-G11	• Power	L/h (1500r/min)
• Engine Type	In-line,4strokes, water-cooled	25%	2.73
	Turbo charged	50%	4.46
• Combustion type	Direct injection	75%	6.29
• Cylinder Type	Wet liner	100%	8.34
• Number of cylinders	4	110%	8.94
\circ Bore \times stroke	98× 105 mm		
• Displacement	3.2L		
• Compression ratio	18:1		
• Firing order	1-3-4-2	◎ FUEL SYSTEM	
• Injection timing	14-17°	• Injection pump	KangDa
• Dry weight	280 kg	o Governor	Electric type
• Dry weight	848×608×909mm	• Feed pump	Mechanical type
(L×W×H)		• Injection nozzle	Multi hole type

• Rotation	Counter clockwise viewed from Flywheel	• Opening pressure	24MPa
• Fly wheel housing	SAE 4#	• Fuel filter	Full flow, cartridge type
• Fly wheel	SAE 7.5# (tooth number 120)	• Used fuel	Diesel fuel oil
© MECHANISM		© LUBRICATION SYST	EM
• Туре	Overhead valve	• Lub. Method	Fully forced pressure feed type
• Number of valve	Intake 1, exhaust 1 per cylinder	• Oil pump	Gear type driven by camshaft
• Valve lashes at cold	Intake 0.40mm	• Oil filter	Full flow, cartridge type
	Exhaust 0.65mm	• Oil pan capacity	High level 10 L
			Low level 8 L
◎ VALVE TIMING		• Angularity limit	Front down 25°
	Opening Close		Front up 35°
• Intake valve	15° BTDC 30° ABDC		Side to side 35°
• Exhaust valve	45° BBDC 13° ATDC	◦ Lub. Oil	Refer to Operation Manual
◎ COOLING SYSTEM		◎ ENGINEERING DATA	
		© ENGINEERING DATA	A
 Water capacity 		 ENGINEERING DATA Heat rejection to coolant 	1 9.1 kcal/sec (1500r/min)
	3.2L		
• Water capacity (engine only)			
• Water capacity	3.2L	• Heat rejection to coolant	
• Water capacity (engine only)	3.2L	 Heat rejection to coolant Heat rejection to 	
 Water capacity (engine only) Lid Min. pressure 	3.2L 70kPa	 Heat rejection to coolant Heat rejection to 	
 Water capacity (engine only) Lid Min. pressure Water pump 	3.2L 70kPa Centrifugal type driven by belt	 Heat rejection to coolant Heat rejection to intercooler 	19.1 kcal/sec (1500r/min)
 • Water capacity (engine only) • Lid Min. pressure • Water pump • Water pump Capacity 	 3.2L 70kPa Centrifugal type driven by belt 25L/min (1500r/min) 	 Heat rejection to coolant Heat rejection to intercooler Air flow 	19.1 kcal/sec (1500r/min) 4.1m3/min (1500r/min)
 • Water capacity (engine only) • Lid Min. pressure • Water pump • Water pump Capacity 	 3.2L 70kPa Centrifugal type driven by belt 25L/min (1500r/min) Wax-pellet type 	 Heat rejection to coolant Heat rejection to intercooler Air flow 	19.1 kcal/sec (1500r/min) 4.1m3/min (1500r/min)
 • Water capacity (engine only) • Lid Min. pressure • Water pump • Water pump Capacity 	3.2L 70kPa Centrifugal type driven by belt 25L/min (1500r/min) Wax-pellet type Opening temp. 72°C	 Heat rejection to coolant Heat rejection to Heat rejection to intercooler Air flow Exhaust gas flow Exhaust gas temp. Max. permissible 	19.1 kcal/sec (1500r/min) 4.1m3/min (1500r/min) 10.6m3/min (1500r/min)
 • Water capacity (engine only) • Lid Min. pressure • Water pump • Water pump Capacity • Thermostat 	 3.2L 70kPa Centrifugal type driven by belt 25L/min (1500r/min) Wax-pellet type Opening temp. 72°C Full open temp. 82°C Blower type, plastic 	 Heat rejection to coolant Heat rejection to Heat rejection to intercooler Air flow Air flow Exhaust gas flow Exhaust gas temp. Max. permissible restrictions 	19.1 kcal/sec (1500r/min) 4.1m3/min (1500r/min) 10.6m3/min (1500r/min) 550 °C 3 kPa initial
 • Water capacity (engine only) • Lid Min. pressure • Water pump • Water pump Capacity • Thermostat 	3.2L 70kPa Centrifugal type driven by belt 25L/min (1500r/min) Wax–pellet type Opening temp. 72°C Full open temp. 82°C	 Heat rejection to coolant Heat rejection to Heat rejection to intercooler Air flow Exhaust gas flow Exhaust gas temp. Max. permissible 	19.1 kcal/sec (1500r/min) 4.1m3/min (1500r/min) 10.6m3/min (1500r/min) 550 °C

of coolant in prime/ Standby power

restrictions

$\odot~$ ELECTRICAL SYSTEM

- Charging generator 12V×70A
- Voltage regulator Built-in type IC regulator
- Starting motor 12V×3.8kW
- Battery Voltage 12V
- Battery Capacity 110~120 AH



