

 \bigcirc Power

Engine Speed	Type of	Engine Power	Generator Power	
rpm	Operation	kW	kW	kVA
1500	Prime Power	22	16	20
	Standby Power	24	18	22.5

-. 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		◎ FUEL CONSUMPTION	
• Engine Model	4Z2.7-G11	• Power	L/h (1500r/min)
• Engine Type	In-line,4strokes, water-cooled	25%	1.64
		50%	2.6
• Combustion type	Direct injection	75%	3.6
• Cylinder Type	Wet liner	100%	4.68
• Number of cylinders	4	110%	5.13
\circ Bore \times stroke	90× 105 mm		
• Displacement	2.7L		
• Compression ratio	18 : 1		
• Firing order	1-3-4-2	◎ FUEL SYSTEM	
• Injection timing	14-17°	• Injection pump	KangDa
• Dry weight	280 kg	• Governor	Electric type
• Dry weight	953×522×728mm	• 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
O MECHANISM		◎ LUBRICATION SYSTEM	
о 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 0.35mm	• Oil filter	Full flow, cartridge type
	Exhaust 0.45mm	• 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	11° BTDC 41° ABDC		Side to side 35°
• Exhaust valve	49° BBDC 11° ATDC	• Lub. Oil	Refer to Operation Manual
© COOLING SYSTE	^C M	◎ 柴油机数据	
• Water capacity	2.7L	• Heat rejection to coolant	10.6 kcal/sec (1500r/min)
(engine only)	2.70		
• Lid Min. pressure 70kPa		• Heat rejection to	
		intercooler	
• Water pump	Centrifugal type driven by belt		
• Water pump Capacity	25L/min (1500r/min)	• Air flow	2.3m3/min (1500r/min)
• Thermostat	Wax-pellet type	• Exhaust gas flow	8.9m3/min (1500r/min)
	Opening temp. 72°C		
	Full open temp. 82°C	• Exhaust gas temp.	480 °C
• Cooling fan	Blower type, plastic	• Max. permissible	3 kPa initial
		restrictions	
	420 mm diameter, 7 blades Power concumption 3.5 kW	Intake system Exhaust system	4 kPa final 10 kPa max
• The maximum temp.		• intercooler permissible	
of coolant in prime/	104/100°C	restrictions	
Standby power			

◎ 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	



