

4Z2.7-G12

O Power

Engine Speed	Type of	Engine Power	Generator Power	
rpm	Operation	kW	kW	kVA
1800	Prime Power	26	20	25
	Standby Power	29	22	27.5

- -. 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.

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Overload operation is not allowed

© SPECIFICATIONS

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O Engine Model	4Z2.7-G12	O Power	L/h (1800r/min)	
O Engine Type	In-line,4strokes, water-cooled	25%	1.72	
		50%	2.69	
O Combustion type	Direct injection	75%	3.79	
O Cylinder Type	Wet liner	100%	4.92	
O Number of cylinders	4	110%	5.53	
O Bore × stroke	90× 105 mm			
O Displacement	2.7L			
O Compression ratio	18:1			
O Firing order	1-3-4-2	© FUEL SYSTEM		
O Injection timing	14-17°	O Injection pump	KangDa	
O Dry weight	280 kg	O Governor	Electric type	
O Dry weight	953×522×728mm	O Feed pump	Mechanical type	
$(L\times W\times H)$		O Injection nozzle	Multi hole type	
• Rotation	Counter clockwise viewed from Flywheel	Opening pressure	24MPa	

O Fly wheel housing	SAE 4#	O Fuel filter	Full flow, cartridge type	
o Fly wheel	SAE 7.5# (tooth number 120)	O Used fuel	Diesel fuel oil	
		◎ LUBRICATION SYSTEM		
• Туре	Overhead valve	O Lub. Method	Fully forced pressure feed type	
O Number of valve	Intake 1, exhaust 1 per cylinder	Oil pump	Gear type driven by camshaft	
O Valve lashes at cold	Intake 0.35mm	Oil filter	Full flow, cartridge type	
	Exhaust 0.45mm	O Oil pan capacity	High level 10 L	
			Low level 8 L	
○ VALVE TIMING		O Angularity limit	Front down 25°	
	Opening Close		Front up 35°	
O Intake valve	11° BTDC 41° ABDC		Side to side 35°	
O Exhaust valve	49° BBDC 11° ATDC	O Lub. Oil	Refer to Operation Manual	
© COOLING SYSTE	M	◎ 柴油机数据		
O Water capacity	2.7L	O Heat rejection to coolant	12.8 kcal/sec (1800r/min)	
(engine only)	2.71			
O Lid Min. pressure	D Lid Min. pressure 70kPa			
		intercooler		
O Water pump	Centrifugal type driven by belt			
O Water pump Capacity	28L/min (1800r/min)	O Air flow	2.8m3/min(1800r/min)	
O Thermostat	Wax-pellet type	O Exhaust gas flow	8.9m3/min(1800r/min)	
	Opening temp. 72°C			
	Full open temp. 82°C	O Exhaust gas temp.	480 °C	
O Cooling fan	Blower type, plastic	O Max. permissible	3 kPa initial	
	420 mm diameter, 7 blades	restrictions Intake system	4 kPa final	
	Power concumption 3.5 kW	Exhaust system	10 kPa max	
• The maximum temp.	10.14.00.00	o intercooler permissible		
of coolant in prime/ Standby power	104/100°C	restrictions		

© ELECTRICAL SYSTEM

O Charging generator 12V×70A

O Voltage regulator Built-in type IC regulator

O Starting motor 12V×3.8kW

O Battery Voltage 12V

O Battery Capacity 110~120 AH



