

DIESEL ENGINE

MODEL 6DSG-149

Performances

Ratings		150	1500 rpm		1800 rpm	
		PRIME	STAND-BY	PRIME	STAND-BY	
Rated Output	kWm	135	148.5	145	159.5	

Note:

PRIME POWER: The prime power is the maximum power available with varying loads for an unlimited number of hours. The average power output during a 24h period of operation must not exceed 80% of the declared prime power between the prescribed maintenance intervals and at standard environmental conditions. A 10% overload is permissible for 1 hour every 12 hours of operation.

STAND-BY POWER: The stand-by power is the maximum power available for a period of 500 hours/year with a mean load factor of 90% of the declared stand-by power. No kind of overloads is permissible for this use.

Specifications

Flywheel housing/flywheel

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Mechanical system				
Engine model	6DSG-149 (50Hz)	6DSG-149 (60Hz)		
Engine type	In-line, 4 stroke, water cooled			
Combustion type	direct injection			
Cylinder type	Wet liner			
Air intake type	Turbocharger and intercooler			
Cylinder No.	6			
Bore*Stroke(mm)	105*135			
Total displacement(L)	7.1			
Compression ratio	16:1			
Firing order	1-5-3-6-2-4			
Injection timing	17°±1°			
Speed governor	Mechanical ≤5%, (If choose Electronic governor, ≤1%)			
Exhaust temperature (℃)	≤600			
Mean Effective Pressure (KPa)	1525			
Noise Level(dBA)	≤95			
Exhaust gas back pressure(KPa)	6.5			
Exhaust flow (m ³ /h)	1524			
Cooling air flow (m ³ /h)	14260			
Air for combustion flow (m ³ /h)	528			
Piston Speed(m/s)	6.75	8.1		
Dry weight (kg)	620			
Dimension(L*W*H)(mm)	1167*696*1301(without radiator)			
Rotation	Counter clockwise viewed from flywheel			

SAE3/ 11.5"





Mechanism

Type Over head valve

Valves per cylinder Air intake valve 0.30-0.40mm Valve lash(cold state)

Exhaust valve 0.40-0.50mm

Valve timing (crankshaft rotating angel)

Air intake valve open 12° before top dead center Air intake valve close 38° after bottom dead center Exhaust valve open 55° before bottom dead center Exhaust valve close 12° after top dead center

Specific fuel consumption

1500 1800 rpm

Fuel consumption (g/kWh) ≤224

Oil consumption

≤1.63 Oil consumption(g/kWh)

Fuel system

Fuel injector pump A in-line plunger type Governor model RSV full range type Feed pump Mechanical type Injection nozzle P type, multi hole type

Fuel filter Spin-on type/water separator

Fuel Diesel

Lubrication system

Fully forced pressure feed type Oil pump Displacement/speed Single grade gear type

(L/min/r/min) 90/2800

Lube oil total system capacity 18L including pipes, filters etc.

Spin-on type

Cooling system

Oil filter

Cooling method Water cooled, forced circulation

Coolant capacity: engine only 11L 22L engine+radiator

Centrifugal type driven by belt Water pump type

≥200 Water pump capacity(L/min)

Thermostat Opening temp.60℃ Cooling fan Ф540m, 7blades, iron

Electronic system

Charging alternator 28v/1000w

No AVR for meter panel or monitor controller / Built-in type **AVR**

24v/5.5kW Starting motor 24v/150Ah Battery capacity

