

DIESEL ENGINE

MODEL 6DSG-93

Performances

Ratings		150	1500 rpm		1800 rpm		
		PRIME	STAND-BY		PRIME	STAND-BY	
Rated Output	kWm	84	92.4		90	99	

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 Mechanical system Engine model 6DSG-93 (50Hz) 6DSG-93 (60Hz) Engine type In-line, 4 stroke, water cooled Combustion type direct injection Cylinder type Wet liner Air intake type Turbocharger Cylinder No. 6 105*125 Bore*Stroke(mm) Total displacement(L) 6.49 Compression ratio 16:1 Firing order 1-5-3-6-2-4 17°±1° Injection timing Speed governor Mechanical $\leq 5\%$, (If choose Electronic governor, $\leq 1\%$) Exhaust temperature (°C) ≤600 Mean Effective Pressure (KPa) 1350 Noise Level(dBA) ≤95 7 Exhaust gas back pressure(KPa) Exhaust flow (m³/h) 1110 Cooling air flow (m³/h) 10800 Air for combustion flow (m³/h) 396 Piston Speed(m/s) 6.25 7.5 580 Dry weight (kg) Dimension(L*W*H)(mm) 1167*696*1301(without radiator) Counter clockwise viewed from flywheel Rotation Flywheel housing/flywheel SAE3/ 11.5"



Mechanism

Type Valves per cylinder Valve lash(cold state)

Oil consumption Oil consumption(g/kWh)

Fuel system Fuel injector pump

Governor model

Injection nozzle

Feed pump

Fuel filter

Fuel

Type

Valve timing (crankshaft rotating angel) Air intake valve open Air intake valve close Exhaust valve open Exhaust valve close Specific fuel consumption rpm Fuel consumption (g/kWh)

Over head valve 2 Air intake valve 0.30-0.40mm Exhaust valve 0.40-0.50mm

12° before top dead center 38° after bottom dead center 55° before bottom dead center 12° after top dead center

1500

1800

≤1.63

≤224

A in-line plunger type RSV full range type Mechanical type S type, long holey type Spin-on type/water separator Diesel

Fully forced pressure feed type Single grade gear type 90/2800 Spin-on type 18L including pipes, filters etc.

Water cooled, forced circulation 11L 21L Centrifugal type driven by belt ≥200 Opening temp.60°C

28v/1000w No AVR for meter panel or monitor controller / Built-in type 24v/5.5kW 24v/150Ah

Oil pump Displacement/speed (L/min/r/min)

Lubrication system

Oil filter Lube oil total system capacity

Cooling system

Cooling method Coolant capacity: engine only engine+radiator Water pump type Water pump capacity(L/min) Thermostat Cooling fan

Electronic system

Charging alternator AVR Starting motor Battery capacity