

DIESEL ENGINE

MODEL 4DSG-73

Performances

Ratings		15	1500 rpm		
		PRIME	STAND-BY		
Rated Output	kWm	66	72.6		

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

Mec	han	ical	SV	stem
11100	HIGH	ıvaı		316111

mediamour system		
Engine model	4DSG-73 (50Hz)	
Engine type	In-line, 4 stroke, water cooled	
Combustion type	direct injection	
Cylinder type	Wet liner	
Air intake type	Turbocharger	
Cylinder No.	4	
Bore*Stroke(mm)	105*135	
Total displacement(L)	4.67	
Compression ratio	16:1	
Firing order	1-3-4-2	
Injection timing	17°±1°	
Speed governor	Mechanical ≤5%, (If choose Electronic governor, ≤1%)	
Exhaust temperature (°C)	≤600	
Mean Effective Pressure (KPa)	1131	
Noise Level(dBA)	≤95	
Exhaust gas back pressure(KPa)	7	
Exhaust flow (m ³ /h)	898	
Cooling air flow (m ³ /h)	6010	
Air for combustion flow (m ³ /h)	337	
Piston Speed(m/s)	6.75	
Dry weight (kg)	445	
Dimension(L*W*H)(mm)	830*696*1200(without radiator)	
Rotation	Counter clockwise viewed from flywheel	
Flywheel housing/flywheel	SAE3/ 11.5"	





Mechanism

Type Over head valve

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

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

rpm 1500 Fuel consumption (g/kWh) ≤239

Oil consumption

Oil consumption(g/kWh) ≤1.63

Fuel system

Fuel injector pump A in-line plunger type Governor model RSV full range type Feed pump Mechanical type Injection nozzle S type, long holey 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) 62/2800 Oil filter

Lube oil total system capacity 17L including pipes, filters etc.

Spin-on type

Cooling system

Cooling method Water cooled, forced circulation

Coolant capacity: engine only 8.5L engine+radiator 19.5L

Centrifugal type driven by belt Water pump type

≥200 Water pump capacity(L/min)

Thermostat Opening temp.60°C Cooling fan Ф490m, 6blades, iron

Electronic system

Charging alternator 28v/1000w

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

24v/5.5kW Starting motor Battery capacity 24v/120Ah