

DIESEL ENGINE

MODEL 6DSP-220

Performances

Ratings			2900 rpm		
			PRIME	STAND-BY	
Rated Output	kWm		200	220	

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	ıcal	system

Engine model	6DSP-220
Engine type	In-line, 4 stroke, water cooled
Combustion type	Direct Injection
Cylinder type	Dry liner
Air intake type	Turbocharger and intercooler
Cylinder No.	6
Bore*Stroke(mm)	108*125
Total displacement(L)	6.870
Compression ratio	17.5:1
Firing order	1-5-3-6-2-4
Injection timing	15°±1°
Speed governor	Mechanical ≤8%
Exhaust temperature ($^{\circ}\!\mathbb{C}$)	≤550
Mean Effective Pressure (KPa)	1359
Noise Level(dBA)	≤93
Exhaust gas back pressure(KPa)	9
Exhaust flow (m ³ /h)	2993
Cooling air flow (m ³ /h)	1848
Air for combustion flow (m ³ /h)	1293
Piston Speed(m/s)	11.8
Dry weight (kg)	750
Dimension(L*W*H)(mm)	1780*950*1450 (with radiator and muffler)
Rotation	Counter clockwise viewed from flywheel
Flywheel housing/flywheel	SAE 1/ 14"



Exhaust valve 0.30-0.40mm

Diesel

Spin-on type

35L

Centrifugal type driven by belt

≥180

Opening temp.73℃ Φ490mm, 7blades, PA



Mechanism

Type Over head valve

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

Valve timing (crankshaft rotating angel)

Air intake valve open 24.5° before top dead center Air intake valve close 55.5° after bottom dead center Exhaust valve open 54° before bottom dead center Exhaust valve close 26° after top dead center

Specific fuel consumption

rpm 2900 Fuel consumption (g/kWh) ≤221

Oil consumption

≤1.63 Oil consumption(g/kWh)

Fuel system

Fuel injector pump BQ pump Governor model RSV full range type Feed pump Mechanical type Injection nozzle multi holes type Spin-on type Fuel filter

Fuel

Lubrication system

Mixed type, pressure and splash lubrication Oil pump Displacement/speed Inner and outer rotor type 80/2000

(L/min/r/min) Oil filter

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

Cooling system

Cooling method Water cooled, forced circulation Coolant capacity: engine only 10L

Engine + radiator

Water pump type

Water pump capacity(L/min)

Thermostat Cooling fan

Electronic system

Charging alternator 28v/1000w

AVR Built-in type 24v/8.0kW Starting motor 24v/100Ah Battery capacity

