

DIESEL ENGINE

MODEL 6DSP-245

Performances

Ratings		2900 rpm	
		PRIME	STAND-BY
Rated Output	kWm	223	245

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	6DSP-245
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)	126*130
Total displacement(L)	9.726
Compression ratio	16:1
Firing order	1-5-3-6-2-4
Injection timing	16°±1°
Speed governor	Mechanical ≤8%
Exhaust temperature (°C)	≤6000
Mean Effective Pressure (KPa)	1136
Noise Level(dBA)	≤105
Exhaust gas back pressure(KPa)	8.65
Exhaust flow (m³/h)	2265
Cooling air flow (m³/h)	3397
Air for combustion flow (m³/h)	1467
Piston Speed(m/s)	10.4
Dry weight (kg)	930
Dimension(L*W*H)(mm)	2090*920*1490 (with radiator and muffler)
Rotation	Counter clockwise viewed from flywheel
Flywheel housing/flywheel	SAE 1/ 14"

Mechanism

Type

Over head valve

Valves per cylinder

2

Valve lash(cold state)

Air intake valve 0.30-0.40mm

Exhaust valve 0.30-0.40mm

Valve timing (crankshaft rotating angel)

Air intake valve open

34.5° before top dead center

Air intake valve close

65.5° after bottom dead center

Exhaust valve open

78° before bottom dead center

Exhaust valve close

26° after top dead center

Specific fuel consumption

rpm

2900

Fuel consumption (g/kWh)

≤210

Oil consumption

Oil consumption(g/kWh)

≤0.816

Fuel system

Fuel injector pump

PW pump

Governor model

RSV full range type

Feed pump

Mechanical type

Injection nozzle

multi holes type

Fuel filter

Spin-on type

Fuel

Diesel

Lubrication system

Type

Mixed type, pressure and splash lubrication

Oil pump Displacement/speed

Inner and outer rotor type

(L/min/r/min)

140/2200

Oil filter

Spin-on type

Lube oil total system capacity

21L including pipes, filters etc.

Cooling system

Cooling method

Water cooled, forced circulation

Coolant capacity: engine only

14L

Engine + radiator

38L

Water pump type

Centrifugal type driven by belt

Water pump capacity(L/min)

≥380

Thermostat

Opening temp.73℃

Cooling fan

Φ 760mm, 9blades, PA

Electronic system

Charging alternator

28v/1000w

AVR

Built-in type

Starting motor

24v/8.1kW

Battery capacity

24v/185Ah