

DIESEL ENGINE

MODEL 6DSP-195

Performances

Ratings		2900 rpm			
			PRIME	STAND-BY	
Rated Output	kWm		177	195	

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-195 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) 105*125 6.490 Total displacement(L) Compression ratio 17.5:1 Firing order 1-5-3-6-2-4 17°±1° Injection timing Speed governor Mechanical ≤8% ≤600 Exhaust temperature (°C) Mean Effective Pressure (KPa) 1116 Noise Level(dBA) ≤99 Exhaust gas back pressure(KPa) 10 Exhaust flow (m³/h) 2693 Cooling air flow (m³/h) 1663 Air for combustion flow (m³/h) 1164 Piston Speed(m/s) 10.4 720 Dry weight (kg) Dimension(L*W*H)(mm) 1639*800*1150 (with radiator and air filter)) Counter clockwise viewed from flywheel Rotation Flywheel housing/flywheel SAE 3/ 11.5"



Mechanism

Type Valves per cylinder Valve lash(cold state)

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) **Oil consumption** Oil consumption(g/kWh) **Fuel system** Fuel injector pump Governor model Feed pump Injection nozzle Fuel filter Fuel Lubrication system Type Oil pump Displacement/speed (L/min/r/min) 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

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

24.5° before top dead center 55.5° after bottom dead center 54° before bottom dead center 26° after top dead center

> 2900 ≤205

≤1.52

BQ pump RSV full range type Mechanical type multi holes type Spin-on type Diesel

Mixed type, pressure and splash lubrication Inner and outer rotor type 80/2000 Spin-on type 17L including pipes, filters etc.

> Water cooled, forced circulation 10L 35L Centrifugal type driven by belt ≥180 Opening temp.73°C Φ490mm, 7blades, PA

> > 28v/1000w Built-in type 24v/6.6kW 24v/120Ah