

DIESEL ENGINE

MODEL 6DSG-385

Performances

Ratings		150	1500 rpm		1800 rpm	
		PRIME	STAND-BY	PRIME	STAND-BY	
Rated Output	kWm	350	385	350	385	

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

	■ 0.00 0.00 0.00		
Mec	:han	ııcal	svstem

Micorial modi System				
Engine model	6DSG-385 (50Hz)	6DSG-385 (60Hz)		
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)	127*165			
Total displacement(L)	12.54			
Compression ratio	16:1			
Firing order	1-5-3-6-2-4			
Injection timing	14°±1°	16°±1°		
Speed governor	Electronic governor, ≤1%			
Exhaust temperature (°ℂ)	≤600			
Mean Effective Pressure (KPa)	2233	1861		
Noise Level(dBA)	≤105			
Exhaust gas back pressure(KPa)	9.2			
Exhaust flow (kg/h)	2280	2342		
Cooling air flow (m³/h)	30600	34200		
Air for combustion flow (m ³ /h)	1570	1686		
Piston Speed(m/s)	8.25	9.9		
Dry weight (kg)	1100			
Dimension(L*W*H)(mm)	2230*780*1539(with radiator)			
Rotation	Counter clockwise viewed from flywheel			
Flywheel housing/flywheel	SAE1/ 14"			



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 filter

Lube oil total system capacity

Cooling system

Cooling method

Coolant capacity: engine only

engine+radiator

Water pump type

Thermostat

Cooling fan

Electronic system

Charging alternator

AVR

Starting motor

Battery capacity

Over head valve

4

Air intake valve 0.30mm

Exhaust valve 0.40mm

34°-39° before top dead center

61°-67° after bottom dead center

76°-81° before bottom dead center

26°-34° after top dead center

1500 1800

≤192

≤0.792

In-line "PW" type

RSV full range type

Mechanical type

BOSCH brand, multi hole type

Double and spin-on type/water separator

Diesel

Fully forced pressure feed type

Spin-on type

32L including pipes, filters etc.

Water cooled, forced circulation

20L

55L

Centrifugal type driven by belt

Opening temp.71±2℃ full open temp.82℃

Φ865m

28v/1500w

Built-in type brushless

24v/8.1kW brushless

2pcs 12v/185Ah