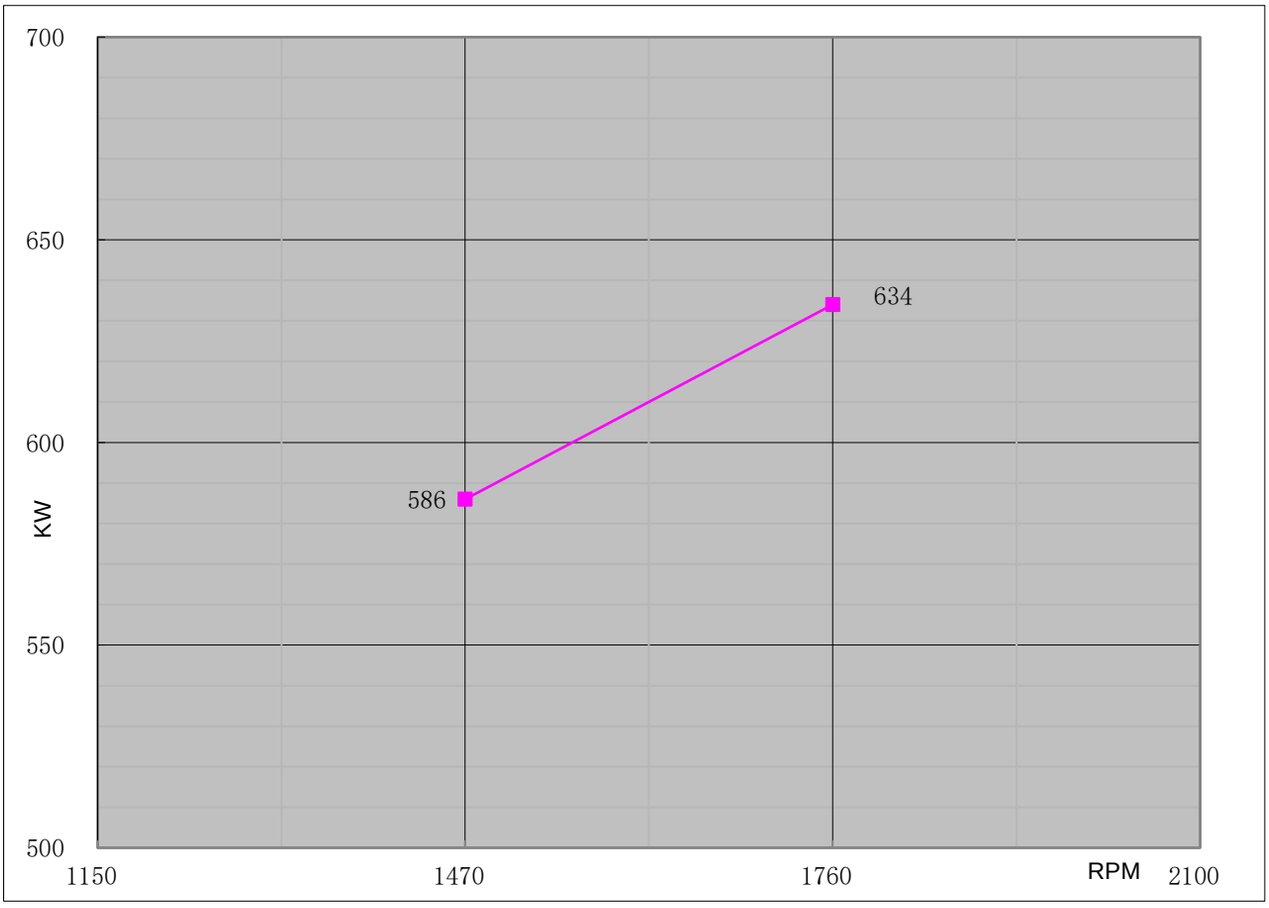
Performance Curve

Engine Model	CH6-150-EB	Curve No.	C06150BF	Date	2024/5/17

Displacement	19.60 L	Aspiration	Turbocharged+Water cooled	Power Standard	UL/FM
Bore	150 mm	Cylinder Qty.	6，In-Line	634 KW @ 1760 r/min	
Stroke	185 mm	Fuel System	Mechanical	850 HP @ 1760 r/min	



Torque

Speed RPM	Torque N-m	lb-ft.
1150		
1470	3809	2809
1760	3443	2539
2100		

Output Power

Speed RPM	Output Power KW	HP
1150		
1470	586	786
1760	634	850
2100		

Fuel Consumption

Speed RPM	Consumption g/KW-HR	lb/BHP-HR
1150		
1470	195	0.321
1760	205	0.337
2100		

REV: A

Engine Data Sheet

Engine Model	CH6-150-EB	**Date**	**2024/5/17**
Drawing No.	CH6-150-EB.00	**Document No.**	**DS06150BF**
Rated Power	**850 HP @ 1760 RPM**	**Performance Curve No.**	**C06150BF**
	634KW @ 1760 RPM	**Version**	**A**

GENERAL ENGINE DATA				
Type			4 Cycle;In-line; water cooled; 6 Cylinder	
Aspiration			Turbocharged +Water Cooled	
Bore and Stroke			mm×mm	150×185
Cylinder Liner Type			☑ Wet	☐ Dry
Displacement			L	19.6
Compression Ratio			15:01	
Firing Order			1-5-3-6-2-4	
Combustion System			Direct Injection	
Rotation Viewed from flywheel			Counter Clockwise	
Valves Per Cylinder			Intake :2 Exhuast :2	
Valves lashes at cold		Intake	mm	0.3
		Exhaust	mm	0.3
Charge Air Cooling Type			Raw Water	
Dry Weight Approx.			kg	2650
Dimension Approx. (L*W*H)			mm	2385*1300*1845
Flywheel/ Flywheel House Dimension			14"/ SAE 1	
EXHAUST SYSTEM				
Exhaust Gas Temp.			℃	550 @ 1760rpm
Exhaust Gas Flow			kg/h	4164 @ 1760rpm
Max. Allowable Back Pressure			kpa	7.5 @1760rpm
Minimum Exhaust Pipe Diameter			DN	250
Minimum exhaust pipe diameter is based on 6 meter of pipe, one elbow, and a silencer. Pressure drop no greater than one half the max. allowable back pressure				
AIR INTAKE SYSTEM				
Air Cleaner Type			Dry Type	
Air Flow			kg/h	4011 @1760rpm
Max. Allowable Air Inlet Restriction			kpa	6 @1760rpm
LUBRICATION SYSTEM				
Oil Capacity			L	61
Engine Normal Operating Sump Oil Temp.			℃	80-105
Normal Operating Oil Pressure Range			bars	4~6.5
Oil Pressure at Idle			bar	>2
COOLING SYSTEM				
Coolant Capacity - Engine + Heat Exchanger			L	100
Thermostat Range		Start Open	℃	80
		Full Open	℃	92
Coolant Pressure Cap			bar	0.9
Raw Water Working Pressure Range at Heat Exchanger			bar	5
Engine Normal Operating Coolant Temp.			℃	80-96
Engine Coolant Flow at Full Load			m^3/h	38.3
Minimum Raw Water Flow @ Engine Speed (rpm)			1470	1760
	Raw Water Temperatures to 16 ℃ (m^3/h)		14	16
	Raw Water Temperatures to 38 ℃ (m^3/h)		15	18

Engine Data Sheet

Raw Water Pipe Size	Raw Water Inlet	G1 1/2"	
	Raw Water Outlet	G2"	
HEATER SYSTEM			
Wattage		W	4500
Voltage AC		V	220
ELECTRICAL SYSTEM-DC			
System Voltage(Nominal)		V	24
Starter motor		Kw	8.5
Recommended Battery Capacity		AH	200
Cold Cranking Amperes @ -18℃ (0°F)		CCA	1000
Charging Alternator Output		Amps	55
FUEL SYSTEM			
Injection Pump			
Injection Advance Angle		°	20
Minimum Supply line Size		mm	12
Minimum Return line Size		mm	12
Fuel Management Control		Mechanical	
Idle Speed		rpm	700±50
Governed Speed Rate		%	<10
Engine Performance Data			
All data is based on the engine operating with fuel system, lubricating oil pump, air cleaner, and alternator; not included are compressor, fan, optional equipment, and driven components.;Data is based on operation at SAE standard J1394 conditions of 300ft (91,4m) altitude, 29.61 in.(752mm) Hg dry barometer, and 77°F (25°C) intake air temperature, using 0# diesel fuel follow the standard GB 252-2011.			
Altitude above which output should be Limited		m (ft.)	91 (300)
Correction Factor per 305m.(1,000ft.) above Altitude Limit		3%	
Temperature above which output should be Limited		°C (°F)	25 (77)
Correction Factor per 5.6°C (10°F) above Temperature Limit		1%	

Remark:

1.All data certified within 5%;
2.TBD - To Be Determined;
3.N/A - Not Applicable;