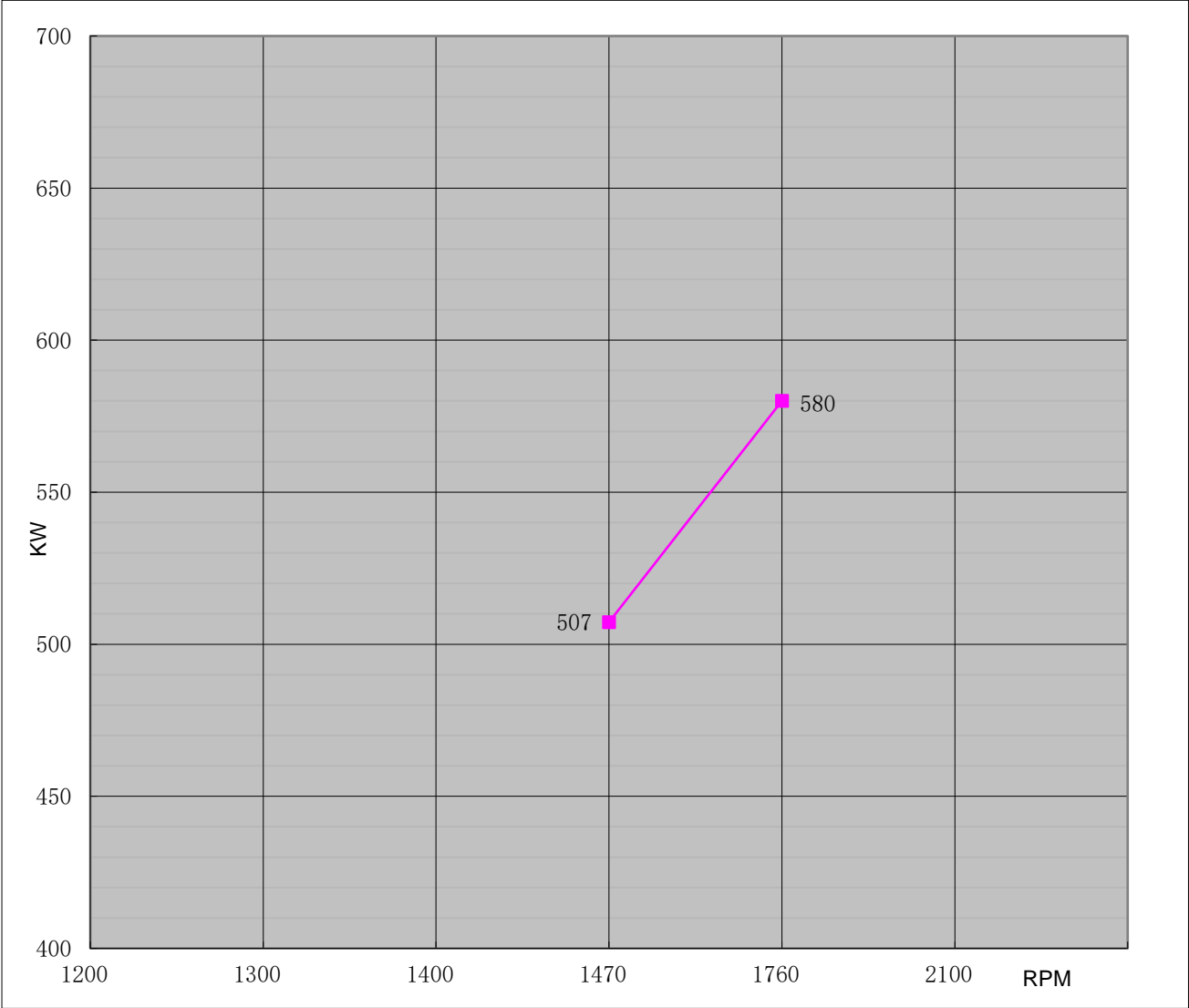




DIESEL ENGINE

Engine Model		CH6-159-EB		Curve No.		C06159BF	Date	2021/1/16
Displacement	18.90	L	Aspiration	Turbocharged+Water cooled		Power Standard		UL/FM
Bore	159	mm	Cylinder Qty.	6, In Line		580	KW @ 1760	r/min
Stroke	159	mm	Fuel System	Mechanical		778	HP @ 1760	r/min



Torque		
Speed	Torque	
RPM	N-m	lb-ft.
1200		
1300		
1400		
1470	3296	2430
1760	3147	2321
2100		

Output Power		
Speed	Output Power	
RPM	KW	HP
1200		
1300		
1400		
1470	507	680
1760	580	778
2100		

Fuel Consumption		
Speed	Consumption	
RPM	g/KW-HR	lb/BHP-HR
1200		
1300		
1400		
1470	210	0.345
1760	213	0.350
2100		



Engine Data Sheet

Engine Model	CH6-159-EB	Date	2021/1/16
Drawing No.	CH6-159-EB-00	Document No.	DS06159BF
Rated Power	778 HP @1760 RPM	Performance Curve No.	C06159BF
	580 KW @ 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	159x159
Cylinder Liner Type		<input checked="" type="checkbox"/> Wet	<input type="checkbox"/> Dry
Displacement		L	18.9
Compression Ratio		13.9:1	
Firing Order		1-5-3-6-2-4	
Combustion System		Direct Injection	
Rotation Viewed from flywheel		Counter Clockwise	
Valves Per Cylinder		Intake :2 Exhaust :2	
Valves lashes at cold	Intake	mm	0.36
	Exhaust	mm	0.69
Charge Air Cooling Type		Raw Water	
Dry Weight Approx.		kg	2475
Dimension Approx. (L*W*H)		mm	2250*1380*1935
Flywheel/ Flywheel House Dimension		14"/ SAE 0	

EXHAUST SYSTEM

Exhaust Gas Temp.	°C	502 @ 1760rpm
Exhaust Gas Flow	m³/h	9265 @1760rpm
Max. Allowable Back Pressure	kpa	10
Minimum Exhaust Pipe Diameter	DN	200
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	m³/h	3485 @1760rpm	
Max. Allowable Air Inlet Restriction	kpa	6	

LUBRICATION SYSTEM

Oil Capacity	L	38	
Engine Normal Operating Sump Oil Temp.	°C	80-120	
Normal Operating Oil Pressure Range	bars	3.4~4.8	
Oil Pressure at Idle	bar	1.38	

COOLING SYSTEM

Coolant Capacity - Engine + Heat Exchanger	L	80	
Thermostat Range	Start Open	°C	82
	Full Open	°C	93
Coolant Pressure Cap	bar	0.9	
Raw Water Working Pressure Range at Heat Exchanger	bar	5	
Engine Normal Operating Coolant Temp.	°C	71-95	
Engine Coolant Flow at Full Load	m³/h	45	



Engine Data Sheet

Minimum Raw Water Flow @ Engine Speed (rpm)		1470	1760
Raw Water Temperatures to 16 °C (m³/h)		15	17
Raw Water Temperatures to 38 °C (m³/h)		17.8	21.6
Raw Water Pipe Size	Raw Water Inlet	G2"	
	Raw Water Outlet	G2 1/2"	
HEATER SYSTEM			
Wattage		W	4500
Voltage AC		V	220
ELECTRICAL SYSTEM-DC			
System Voltage(Nominal)		V	24
Starter motor		Kw	9.5
Recommended Battery Capacity		AH	200
Cold Cranking Amperes @ -18°C (0°F)		CCA	1000
Charging Alternator Output		Amps	35
FUEL SYSTEM			
Injection Pump			
Injection Advance Angle		°	IQ
Minimum Supply line Size		mm	19
Minimum Return line Size		mm	16
Fuel Management Control		Mechanical	
Idle Speed		rpm	675
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 daa certified within 5%;			
2.TBD - To Be Determined;			
3.N/A - Not Applicable;			