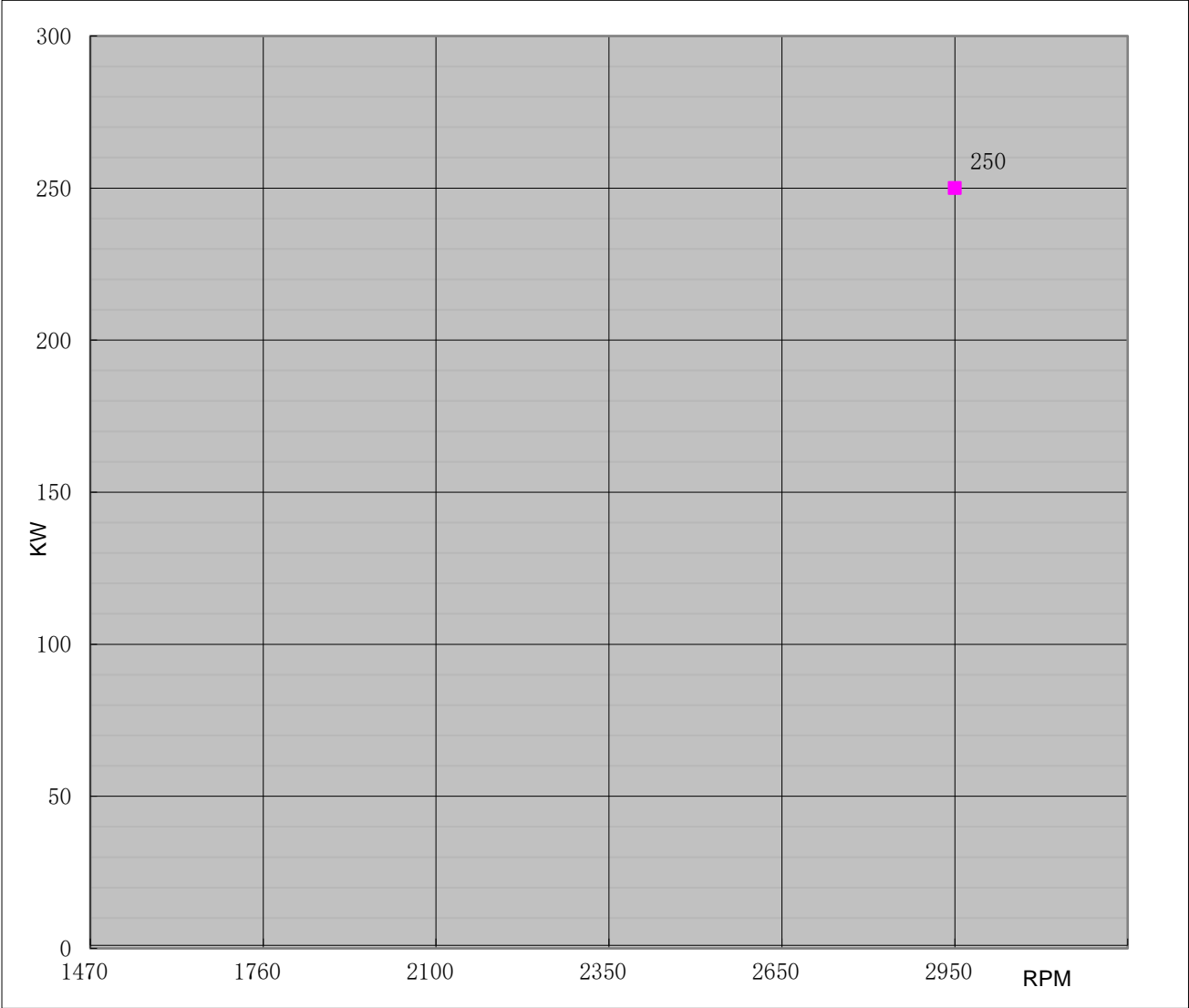




Performance Curve

Engine Model		CH6-108-EE		Curve No.		C06108EF	Date	2021/7/17
Displacement	6.87	L	Aspiration	Turbocharged+Water cooled		Power Standard		UL/FM
Bore	108	mm	Cylinder Qty.	6,In-Line		250	KW @ 2950	r/min
Stroke	125	mm	Fuel System	Mechanical		335	HP @ 2950	r/min



Torque		
Speed	Torque	
RPM	N-m	lb-ft.
1470		
1760		
2100		
2350		
2650		
2950	809	597

Output Power		
Speed	Output Power	
RPM	KW	HP
1470		
1760		
2100		
2350		
2650		
2950	250	335

Fuel Consumption		
Speed	Consumption	
RPM	g/KW-HR	lb/BHP-HR
1470		
1760		
2100		
2350		
2650		
2950	256	0.421



Engine Data Sheet

Engine Model	CH6-108-EE	Date	2021/7/17
Drawing No.	CH6-108-EE.00	Document No.	DS06108EF
Rated Power	335 HP @2950 RPM	Performance Curve No.	C06108EF
	250 KW @ 2950 RPM	Version	A

GENERAL ENGINE DATA

Type		4 Cycle; In-line; water cooled; 6 Cylinder	
Aspiration		Turbocharged +Water Cooled	
Bore and Stroke		mm×mm	108x125
Cylinder Liner Type		<input checked="" type="checkbox"/> Wet	<input type="checkbox"/> Dry
Displacement		L	6.871
Compression Ratio		17.5:1	
Firing Order		1-5-3-6-2-4	
Combustion System		Direct Injection	
Rotation Viewed from flywheel		Counter Clockwise	
Valves Per Cylinder		Intake :1 Exhaust :1	
Valves lashes at cold	Intake	mm	0.40 ~ 0.45
	Exhaust	mm	0.46 ~ 0.52
Charge Air Cooling Type		Raw Water	
Dry Weight Approx.		kg	930
Dimension Approx. (L*W*H)		mm	1620*1000*1465
Flywheel/ Flywheel House Dimension		11.5"/ SAE 2	

EXHAUST SYSTEM

Exhaust Gas Temp.	°C	600 @ 2950rpm
Exhaust Gas Flow	m³/h	3510 @ 2950rpm
Max. Allowable Back Pressure	kpa	9
Minimum Exhaust Pipe Diameter	DN	125
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	1284 @2950rpm	
Max. Allowable Air Inlet Restriction	kpa	5.5	

LUBRICATION SYSTEM

Oil Capacity	L	24	
Engine Normal Operating Sump Oil Temp.	°C	80-120	
Normal Operating Oil Pressure Range	bars	2.5~6.0	
Oil Pressure at Idle	bar	>1	

COOLING SYSTEM

Coolant Capacity - Engine + Heat Exchanger	L	30	
Thermostat Range	Start Open	°C	75
	Full Open	°C	85
Coolant Pressure Cap	bar	0.9	
Raw Water Working Pressure Range at Heat Exchanger	bar	5	
Engine Normal Operating Coolant Temp.	°C	75-95	
Engine Coolant Flow at Full Load	m³/h	23	



Engine Data Sheet

Minimum Raw Water Flow @ Engine Speed (rpm)		2950	
Raw Water Temperatures to 16 °C (m³/h)		6	
Raw Water Temperatures to 38 °C (m³/h)		8	
Raw Water Pipe Size	Raw Water Inlet	G1"	
	Raw Water Outlet	G1 1/4"	
HEATER SYSTEM			
Wattage		W	3000
Voltage AC		V	220
ELECTRICAL SYSTEM-DC			
System Voltage(Nominal)		V	24
Starter motor		Kw	6
Recommended Battery Capacity		AH	180
Cold Cranking Amperes @ -18°C (0°F)		CCA	950
Charging Alternator Output		Amps	55
FUEL SYSTEM			
Injection Pump			
Injection Advance Angle		°	16
Minimum Supply line Size		mm	10
Minimum Return line Size		mm	10
Fuel Management Control		Mechanical	
Idle Speed		rpm	750
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;			