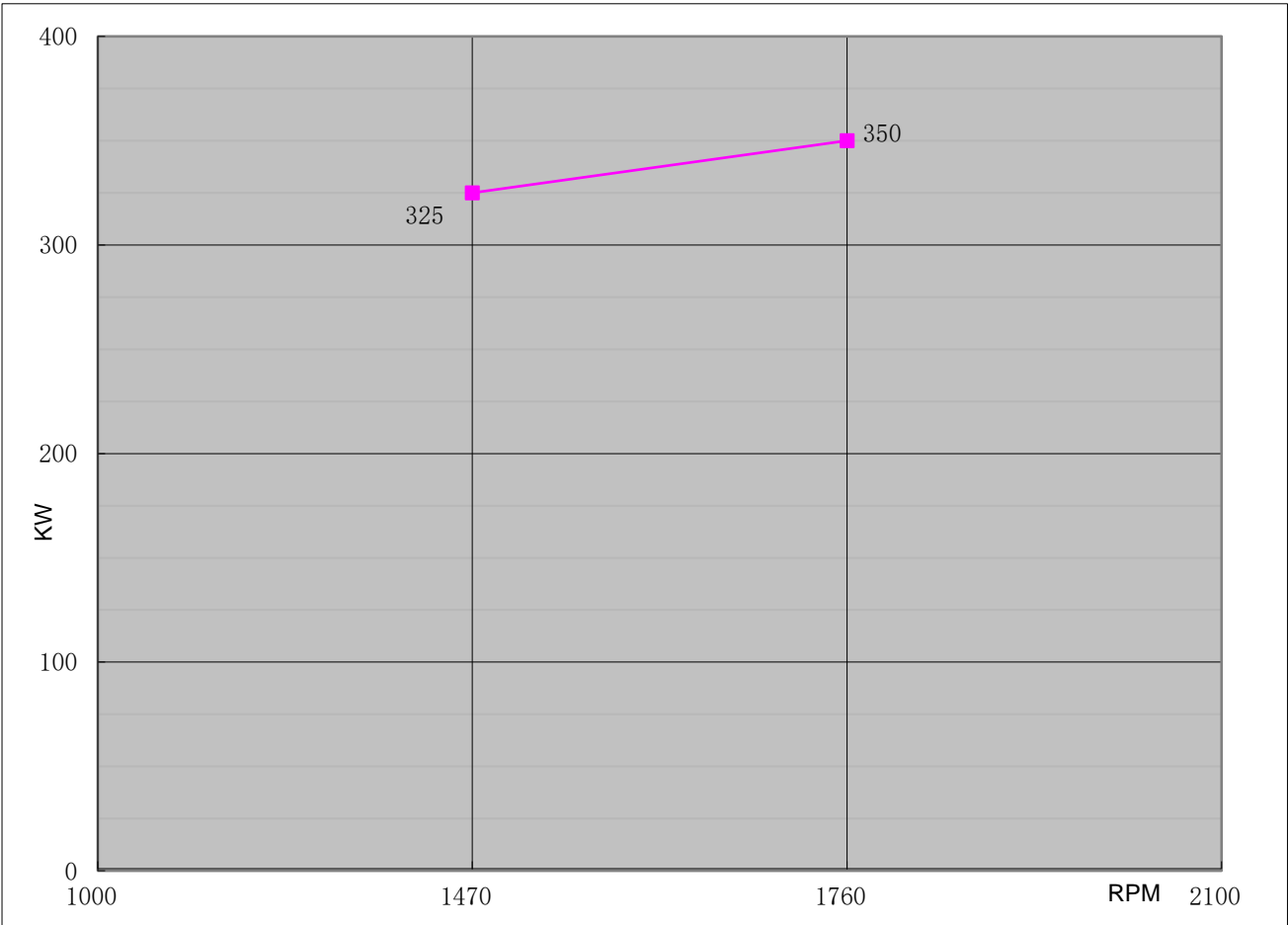




Performance Curve

Engine Model		CH6-127-E		Curve No.		C06127F	Date	2021/7/30
Displacement	12.54	L	Aspiration	Turbocharged+Water cooled		Power Standard		UL/FM
Bore	127	mm	Cylinder Qty.	6, In-Line;		350	KW @ 1760 r/min	
Stroke	165	mm	Fuel System	Mechanical		469	HP @ 1760 r/min	



Torque		
Speed	Torque	
RPM	N-m	lb-ft.
1000		
1470	2108	1555
1760	1899	1401
2100		

Output Power		
Speed	Output Power	
RPM	KW	HP
1000		
1470	325	436
1760	350	469
2100		

Fuel Consumption		
Speed	Consumption	
RPM	g/KW-HR	lb/BHP-HR
1000		
1470	210	0.345
1760	205	0.337
2100		



Engine Data Sheet

Engine Model	CH6-127-E	Date	2021/7/30
Drawing No.	CH6-127-E.00	Document No.	DS06127F
Rated Power	469 HP @ 1760 RPM	Performance Curve No.	C06127F
	350 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	127×165
Cylinder Liner Type		<input type="checkbox"/> Wet	<input checked="" type="checkbox"/> Dry
Displacement		L	12.54
Compression Ratio		16:01	
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	0.4
	Exhaust	mm	0.6
Charge Air Cooling Type		Raw Water	
Dry Weight Approx.		kg	1455
Dimension Approx. (L*W*H)		mm	1620*1115*1465
Flywheel/ Flywheel House Dimension		14"/ SAE 1	

EXHAUST SYSTEM

Exhaust Gas Temp.	°C	550 @ 1760rpm
Exhaust Gas Flow	kg/h	2181 @ 1760rpm
Max. Allowable Back Pressure	kpa	9 @ 1760rpm
Minimum Exhaust Pipe Diameter	DN	150
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	2100 @1760rpm	
Max. Allowable Air Inlet Restriction	kpa	5 @1760rpm	

LUBRICATION SYSTEM

Oil Capacity	L	34	
Engine Normal Operating Sump Oil Temp.	°C	85-105	
Normal Operating Oil Pressure Range	bars	3.5~5.5	
Oil Pressure at Idle	bar	>1	

COOLING SYSTEM

Coolant Capacity - Engine + Heat Exchanger	L	50	
Thermostat Range	Start Open	°C	72
	Full Open	°C	82
Coolant Pressure Cap	bar	0.9	
Raw Water Working Pressure Range at Heat Exchanger	bar	5	
Engine Normal Operating Coolant Temp.	°C	70-95	
Engine Coolant Flow at Full Load	m ³ /h	30	



Engine Data Sheet

Minimum Raw Water Flow @ Engine Speed (rpm)		1470	1760
Raw Water Temperatures to 16 °C (m³/h)		15	15
Raw Water Temperatures to 38 °C (m³/h)		18	19
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	7.5
Recommended Battery Capacity		AH	180
Cold Cranking Amperes @ -18°C (0°F)		CCA	900
Charging Alternator Output		Amps	35
FUEL SYSTEM			
Injection Pump			
Injection Advance Angle		°	14±1
Minimum Supply line Size		mm	12
Minimum Return line Size		mm	12
Fuel Management Control		Mechanical	
Idle Speed		rpm	840±20
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;			