

Engine Specification Sheet







Model	Ratings HP (kW) @ Rated speed rpm				
Model	1470	1760	2100		
CH6-128-EB	346 (258)	396 (295)	412 (307)		

ENGINE SPECIFICATIONS				
Туре	4 Cycle; In-	line; water cooled; 6 Cylinder		
Aspiration	Turbocharged +Water Cooled			
Bore and Stroke	mm×mm	128x153		
Displacement	L	11.8		
Compression Ratio		17 : 1		
Combustion System Direct Injection		Direct Injection		
Rotation Viewed from flywheel		Counter Clockwise		
Dry Weight Approx.	kg	1450		
Dimension Approx. (L*W*H)	mm	1795*1040*1405		
Crankshaft Centerline Height	mm	440		
Oil Capacity	L	41		
Coolant Capacity - Engine + Heat Exchanger	L	45		

Document No.: SS06128B Date: 2022/1/17 Version: A



CH6-128-EB

Engine Equipment	Standard	Optional
Air Cleaner	Drip proof	N/A
Alternator	24V-DC, 70 Amps with Belt Guard	N/A
Coupling	Bare Flywheel	N/A
Engine Heater	220V-AC	110V-AC
Exhaust Flex Connection	DN100	N/A
Exhaust Protection	Metal Guard	N/A
Flywheel Housing	SAE 1	N/A
Flywheel Power Take Off	SAE 14	N/A
Fuel Connections	Flexible hoses according ISO 15540	N/A
Fuel Filter	Full flow, cartridge type	N/A
Governor, Speed	Constant speed, mechanical	N/A
Heat Exchanger	Shell and Tube Type	N/A
Instrument Panel	Build on Engine	N/A
Junction Box	Integrated in control panel	N/A
Lube Oil Cooler	Jacket Water Cooled	N/A
Lube Oil Filter	Full flow, cartridge type	N/A
Lube Oil Pump	Gear Driven, Gear Type	N/A
Manual Start Control	Dual Manual Start Contactors	N/A
Overspeed Control	Electronic instrument panel, test on instrument panel	N/A
Raw Water Cooling Loop w/ Alarms	Galvanized	Seawater (All 316 SS)
Raw Water Solenoid Operation	Automatic from Fire Pump Controller and from Engine Instrument Panel (for Horizontal Fire Pump Applications)	N/A
Run - Stop Control	On Instrument Panel with Control Position Warning Light	N/A
Starters	24V-DC, 7.5 KW	N/A
Throttle Control	Adjustable speed control	N/A
Water Pump	Centrifugal Type, Gear Driven	N/A

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%
Domark		

Remark:

1.All data certified within 5%;

2.TBD - To Be Determined;

3.N/A - Not Applicable;

Document No.: SS06128B Date: 2022/1/17 Version: A



Raw Water Cooling Capacity

Engine Data Sheet

Engine Model	CH6-128-EB	Date	2019/10/29			
Drawing No.	CH6-128-EB.00	Performance Curve No.	C06128B			
Dated Dawer	412 HP @2100 RPM	Reference No.	14D	S001E		
Rated Power	307 KW @ 2100 RPM	Version		Α		
	GE	NERAL ENGINE DATA	140 1 1 1			
Type				ter cooled; 6 Cylinder		
Aspiration Bore and Stroke			_	d +Water Cooled		
			mmxmm	128x153		
Cylinder Liner Type Displacement			✓ Wet	☐ Dry 11.8		
Compression Ratio			L	7:01		
Firing Order				7.01 3-6-2-4		
Combustion System				Injection		
Rotation Viewed from	front of ongine			CW		
Valves Per Cylinder	TOTA OF GRIGHTE			Exhuast :2		
valves Fel Cyllildel		Intake	mm (inch)	0.4		
Valves lashes at cold		Exhaust	mm (inch)	0.4		
Ignition Type		Exilaust	` ' '			
Charge Air Cooling Ty	ne		Compression(Diesel) Raw Water			
Dry Weight Approx.	po		kg	1450		
	Dimension Approx. (L*W*H)			1795*1040*1405		
• • • • • • • • • • • • • • • • • • • •	Flywheel / Flywheel House Dimension			SAE 1		
Torque at rated RPM				1396		
EXHAUST SYSTEM			N.m	1000		
Exhaust Gas Temp, at	Exhaust Gas Temp. at max. rating/power			600		
Exhaust Gas Flow at Max. output			°C m³/h	3174		
Max. Allowable Back F	·		kpa	10		
Minimum Exhaust Pipe	e Diameter		DN	100		
		AIR INTAKE SYSTEM		100		
Air Cleaner Type			Dry	[,] Туре		
Air Flow at Max. outpu	t		m³/h	1662		
Air Inlet Restriction Dir			kpa	6		
Air Inlet Restriction Cle	ean		kpa	3		
	LU	IBRICATION SYSTEM	· · · · · · · · · · · · · · · · · · ·			
Oil Capacity			L	41		
Max. Sump Oil Temp.			$^{\circ}$ C	120		
Normal Operating Oil I	Normal Operating Oil Pressure Range			3.5~6.0		
Oil Pressure at Idle	Oil Pressure at Idle			>0.7		
		COOLING SYSTEM				
Coolant Capacity - En	gine + Heat Exchanger		L	45		
Thermostat Range	Thermostat Range Start Open		$^{\circ}$	85		
		Full Open	$^{\circ}$	95		
	Coolant Pressure Cap			0.9		
Max. Engine Coolant 1	·		$^{\circ}$	98		
Engine Coolant Flow at Full Load			m ³ /h	43		

m³/h

20

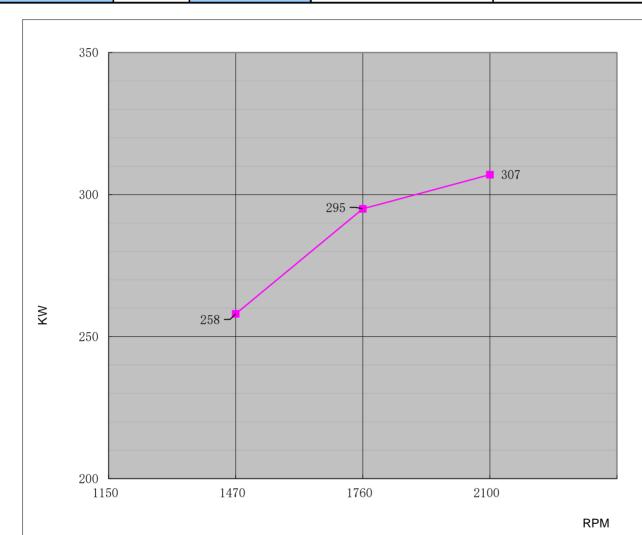
Raw Water Pressure		bar	2	
Min. Raw Water Temp.		${\mathbb C}$	15.6	
Raw Water Pipe Size	Raw Water Inlet	(G1 1/2"	
Naw Water Fipe 0126	Raw Water Outlet	G2"		
	HEATER SYSTEM			
Wattage		W	4500	
Voltage AC		V	220	
EL	ECTRICAL SYSTEM-DC			
System Voltage(Nominal)		V	24	
Starter motor		Kw	7.5	
Recommended Battery Capacity		AH	180	
Cold Cranking Amperes @ -18℃ (0ºF)		CCA	900	
Reserve Capacity (RC)		Min	360	
Charging Alternator Output		Amps	70	
Max. Starter Cranking Amps @4.5℃ (0°F)		Amps	430	
Min. Cranking Speed Required for Unaided Co	d Start	rpm	210	
	FUEL SYSTEM			
Injection Pump			1	
Injection Advance Angle	0	14		
Minimum Supply line Size	mm	12		
Minimum Return line Size	mm	12		
Fuel Management Control		echanical		
Max. Fuel Consumption		g/kw,h	240	
Idle Speed		rpm	800	
Max. Governed Speed		rpm	2310	
Maximum allowable fuel height above fuel pum	р	m	3	
Governed Speed Rate		%	<10	
	gine Performance Data		1	
Estimated free field soud pressure level at 1 me speed(Includes Noise from: exhaust;: Cooling S Components)		dBa	108	
All data is based on the engine operating with fincluded are compressor, fan, optional equipments standard J1394 conditions of 300ft (91,4m) altitemperature, using 0# diesel fuel follow the standard	ent, and driven components.; tude, 29.61 in.(752mm) Hg di	Data is based on c	peration at SAE	
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 Lin		°C (°F)	25 (77)	
Correction Factor per 5.6°C (10°F) above	. ,	1%		

- 2.TBD To Be Determined; 3.N/A Not Applicable;



DIESEL ENGINE

Engine Mode	Engine Model		CH6-128-EB		6-128-EB Curve No. CO		6128B	D	ate		2019/10/9
Displacement	11.8	L	Aspiration		Turbocharged +Water Cod	oled	Power	Standa	rd		UL/FM
Bore	128	mm	Cylinder Qty	y.	6		307	KW	@	2100	r/min
Stroke	153	mm	Fuel System	n	In-Line; Mechanical		412	HP	@	2100	r/min



	Torque	
Speed	Torq	110
RPM	N-m	lb-ft.
1150		
1470	1676	1236
1760	1601	1180
2100	1396	1030

	Output Power				
Spee	ed O	utput Powe	er		
RPN	/ K\	٧	HP		
1150)				
1470) 25	8	346		
1760) 29	5	396		
2100	30	7	412		

Fuel Consumption					
Speed Consumption					
RPM	g/KW-HR	lb/BHP-HR			
1150					
1470	190	0.312			
1760	200	0.329			
2100	220	0.362			

REV:

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