

Engine Specification Sheet





Model	Ratings HP (kW) @ Rated speed rpm
	2950
CH6-110-EB (UL)	153 (114)
CH6-110-EB (FM)	148 (110)

ENGINE SPECIFICATIONS				
Туре	4 Cycle; In-line; water cooled; 6 Cylinder			
Aspiration	Naturally			
Bore and Stroke	mm×mm	110x125		
Displacement	L	7.127		
Compression Ratio 17:1		17:1		
Combustion System	Direct Injection			
Rotation Viewed from flywheel	Counter Clockwise			
Dry Weight Approx.	kg	780		
Dimension Approx. (L*W*H)	mm	1565*866*1245		
Crankshaft Centerline Height	mm	400		
Oil Capacity	L	12		
Coolant Capacity - Engine + Heat Exchanger	L	25		

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3.N/A - Not Applicable;

CH6-110-EB

Engine Equipment	Standard	Optional		
Air Cleaner	Drip proof	N/A		
Alternator	24V-DC, 45 Amps with Belt Guard	N/A		
Coupling	Bare Flywheel	N/A		
Engine Heater	220V-AC	110V-AC		
Exhaust Flex Connection	DN65	N/A		
Exhaust Protection	Metal Guard	N/A		
Flywheel Housing	SAE 3	N/A		
Flywheel Power Take Off	SAE 11.5	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 S	SS)	
Raw Water Solenoid Operation	Automatic from Fire Pump Controller and from Engine Instrument Panel (for Horizontal Fire Pump Applications)	el (for N/A		
Run - Stop Control	On Instrument Panel with Control Position Warning Light	N/A		
Starters	24V-DC, 6.2KW	N/A		
Throttle Control	Adjustable speed control	N/A		
Water Pump	Centrifugal Type, Gear Driven	N/A		
compressor, fan, optional equipment, of 300ft (91,4m) altitude, 29.61 in.(752 follow the standard GB 252-2011. Altitude above which output should be		operation at SAE sta	ndard J1394 conditior e, using 0# diesel fuel 91 (300)	
Correction Factor per 305m		3%		
Temperature above which output sho	uld 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;				

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Engine Data Sheet

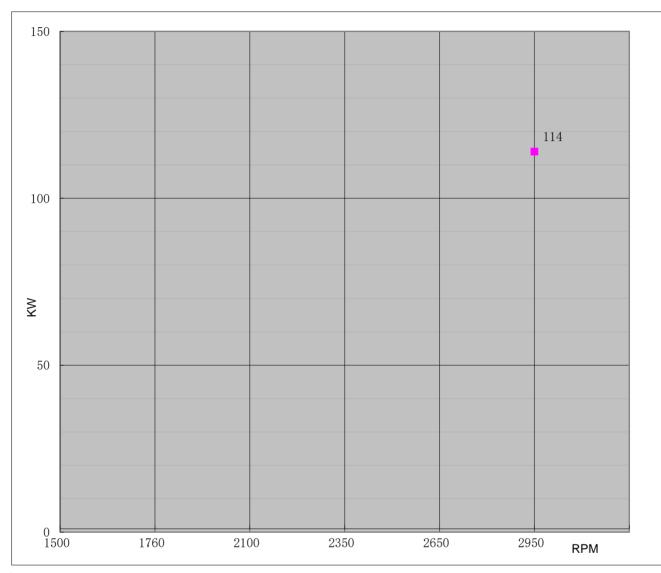
Engine Model	CH6-110-EB	Date	2021	1/12/30	
Drawing No.	CH6-110-EB.00	Performance Curve No.	C06110B		
Drawing 140.	153 HP @ 2950 RPM	Reference No.	14DS001E		
Rated Power	114 KW @ 2950 RPM	Version	В		
		70.0.0.1			
	GI	ENERAL ENGINE DATA			
Type				ter cooled; 6 Cylinder	
Aspiration			Na	turally	
Bore and Stroke			mm×mm 110x125		
Cylinder Liner Type			✓ Wet	Dry	
Displacement			L	7.127	
Compression Ratio				7:01	
Firing Order				3-6-2-4	
Combustion System				Injection	
Rotation Viewed from f	ront of engine			CW Evbuggt v1	
Valves Per Cylinder		latalia		Exhuast :1	
Valves lashes at cold		Intake	mm	0.5	
Ignition Tune		Exhaust	mm	0.5	
Ignition Type Charge Air Cooling Typ	0		•	ssion(Diesel) Water	
Dry Weight Approx.	е				
Dimension Approx. (L*	_* \Λ/ _* ⊢\		kg 780 mm 1565*866*124		
Flywheel/ Flywheel Hou	· · · · · · · · · · · · · · · · · · ·		mm 11.5'	'/ SAE 3	
Torque at rated RPM	ise Difficusion		N.m 368		
Torque at rated Krivi		EXHAUST SYSTEM	14.111	300	
Exhaust Gas Temp. at m	nax. rating/power	°C	≤700		
Exhaust Gas Flow at Ma			kg/h	1085	
Max. Allowable Back Pre	· · · · · · · · · · · · · · · · · · ·		kpa	10	
Minimum Exhaust Pipe	Diameter		DN	65	
		AIR INTAKE SYSTEM			
Air Cleaner Type			Dry Type, Disposable		
Air Flow			kg/h 1052		
Air Inlet Restriction Dirty	у		kpa	6	
Air Inlet Restriction Clea	an		kpa	3	
	Ll	UBRICATION SYSTEM			
Oil Capacity			L	12	
Max. Sump Oil Temp.			℃	120	
Normal Operating Oil P	Pressure Range	bars	3.4~4.9		
Oil Pressure at Idle		bar	>0.98		
		COOLING SYSTEM			
Coolant Capacity - Engine + Heat Exchanger			L	25	
Thermostat Range		Start Open	°C	76	
	Full Open		°C	86	
Coolant Pressure Cap			bar	0.9	
Max. Engine Coolant Te	•		°C	98	
Engine Coolant Flow at			m ³ /h	16	
Raw Water Cooling Capacity			m ³ /h	8	

HESTER	Engine Data Sheet		
Raw Water Pressure	bar	2	
Min. Raw Water Temp.	°C	15.6	
D W . D' 0'	Raw Water Inlet	(G1"
Raw Water Pipe Size	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	6.2
Recommended Battery Capacity		АН	150
Cold Cranking Amperes @ -18°C (0°F)		CCA	800
Reserve Capacity (RC)		Min	290
Charging Alternator Output		Amps	45
Max. Starter Cranking Amps @4.5°C (0°F)		Amps	330
Min. Cranking Speed Required for Unaided Co	old Start	rpm	230
	FUEL SYSTEM	<u> </u>	
Injection Pump			
Injection Advance Angle		٥	11
Minimum Supply line Size	mm	10	
Minimum Return line Size	mm	10	
Fuel Management Control	Mec	hanical	
Max. Fuel Consumption	g/kw,h	250	
Idle Speed	rpm	720	
Max. Governed Speed	rpm	3245	
Maximum allowable fuel height above fuel pu	m	3	
Governed Speed Rate	%	<10	
·	Engine Performance Data		
Estimated free field soud pressure level at 1 m speed(Includes Noise from: exhaust;: Cooling Components)	dBa	108	
All data is based on the engine operating with are compressor, fan, optional equipment, and conditions of 300ft (91,4m) altitude, 29.61 in.(0# diesel fuel follow the standard GB 252-201	driven components.;Data is bas 752mm) Hg dry barometer, and	ed on operation at SA	AE standard J1394
Altitude above which output should be Limite	m (ft.)	91 (300)	
Correction Factor per 305m.(1,000ft		3%	
Temperature above which output should be L	°C (°F)	25 (77)	
Correction Factor per 5.6°C (10°F) al		1%	
Remark: 1.All daa certified within 5%; 2.TBD - To Be Determined; 3.N/A - Not Applicable;			



DIESEL ENGINE

Engine Mode	ı		CH6-110-EB		Curve No.	C0	6110B	D	ate		2019/6/10
Displacement	7.13	L	Aspiration		Naturally		Power	Standa	rd		UL/FM
Bore	110	mm	Cylinder Qty	y.	6		114	KW	@	2950	r/min
Stroke	125	mm	Fuel Systen	n	In-Line; Mechanical		153	HP	@	2950	r/min



Torque	
Torque	
N-m	lb-ft.
368	271
	Torque N-m

	Output Power				
	_	_			
Speed	Output l	Power			
RPM	KW	HP			
1500					
1760					
2100					
2350					
2650					
2950	114	153			

Fuel Consumption					
Speed	Consui	mntion			
Speed	Consu	приоп			
RPM	g/KW-HR	lb/BHP-HR			
1500					
1760					
2100					
2350					
2650					
2950	250	0.411			

REV:

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