

Engine Specification Sheet







Model	Ratings HP (kW) @ Rated speed rpm				
Model	1470	1760	2100		
CH6-114-EC	194 (145)	221 (165)	248 (185)		

ENGINE SPECIFICATIONS					
Туре	4 Cycle; In-	line; water cooled; 6 Cylinder			
Aspiration	Turbo	charged +Water Cooled			
Bore and Stroke	mm×mm	114x135			
Displacement	L	8.27			
Compression Ratio		18:1			
Combustion System	Direct Injection				
Rotation Viewed from flywheel	Counter Clockwise				
Dry Weight Approx.	kg	1020			
Dimension Approx. (L*W*H)	mm	1505*960*1570			
Crankshaft Centerline Height	mm	400			
Oil Capacity	L	19			
Coolant Capacity - Engine + Heat Exchanger	L	26			

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Engine Equipment	Standard	Optional			
Air Cleaner	Drip proof	N/A			
Alternator	24V-DC, 55 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	Metal Guard N/A			
Flywheel Housing	SAE 2	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	SS)		
Raw Water Solenoid Operation	Automatic from Fire Pump Controller and from Engine Instrument Panel (for Horizontal Fire Pump Applications)				
Run - Stop Control	On Instrument Panel with Control				
Starters	24V-DC, 7.5 KW	N/A			
Throttle Control	Adjustable speed control	N/A			
Water Pump	Centrifugal Type, Gear Driven	N/A			
compressor, fan, optional equipment,	ting with fuel system, lubricating oil pump, and driven components.;Data is based on mm) Hg dry barometer, and 77°F (25°C) i	operation at SAE st	andard J1394 conditions		
Altitude above which output should b	e Limited	m (ft.)	91 (300)		
Correction Factor per 305m	n.(1,000ft.) above Altitude Limit		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;					
3.N/A - Not Applicable;					

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Engine Data Sheet

Engine Model	CH6-114-EC	Date	2019/10/12			
Drawing No.	CH6-114-EC.00	Performance Curve No.	C06114C			
	248 HP @ 2100 RPM	Reference No.	14DS001E			
Rated Power	185 KW @2100 RPM	Version	A			
		NED AL ELIZABETH				
T	GE	NERAL ENGINE DATA	10 1 : "	tono I I com i		
Type			4 Cycle; In-line; water cooled; 6 Cylinder Turbocharged +Water Cooled			
Aspiration		<u> </u>				
Bore and Stroke		mm×mm	114x135			
Cylinder Liner Type			✓ Wet	Dry		
Displacement			L	8.27		
Compression Ratio				8:01		
Firing Order				3-6-2-4		
Combustion System	frank of a			Injection		
Rotation Viewed from f	ITOTIT OF ENGINE			CW Exhugat 11		
Valves Per Cylinder		Intaks		Exhuast :1		
Valves lashes at cold		Intake	mm (inch)	0.3		
Ignition Town		Exhaust	mm (inch)	0.5		
Ignition Type	00			sion(Diesel)		
Charge Air Cooling Typ	pe			Water		
Weight Approx.		kg	1020			
Dimension Approx. (L*		mm 1505*960*1570				
Flywheel/ Flywheel Ho		11.5"/ SAE 2				
Max. Torque at rated R		N.m	939			
Exhaust Cas Tag	EXHAUST SYSTEM					
Exhaust Gas Flow at N		°C	600			
Exhaust Gas Flow at Max. Allowable Back P		m³/h	1872			
		kpa	10			
Minimum Exhaust Pipe		AIR INTAKE SYSTEM	DN	100		
Air Cleaner Type	A	MINIANE SISIEM	Dry Type	Disposable		
Air Cleaner Type Air Flow at Max. Ratir		_	Dry Type, Disposable m³/h 858			
Air Flow at Max. Ratin	•		_	858 6		
Air Inlet Restriction Dir		_	kpa kna	3		
An injet vesitionion of		BRICATION SYSTEM	kpa	S		
Oil Capacity	LU	- MOATION OTOTEW	L	19		
Max. Sump Oil Temp.			°C	120		
Normal Operating Oil F	Pressure Range		bars	>2		
Oil Pressure at Idle	bar	>0.7				
Tour roodale at fule		Dai	70.1			
Coolant Capacity - End	gine + Heat Exchanger	L	26			
		°C	82			
Thermostat Range	- Thermostat Range Start Open Full Open			93		
Coolant Pressure Cap		opon	°C bar	0.9		
Max. Engine Coolant T		°C	98			
Engine Coolant Flow a	•	m ³ /h	14			
Raw Water Cooling Ca			m ³ /h	10		
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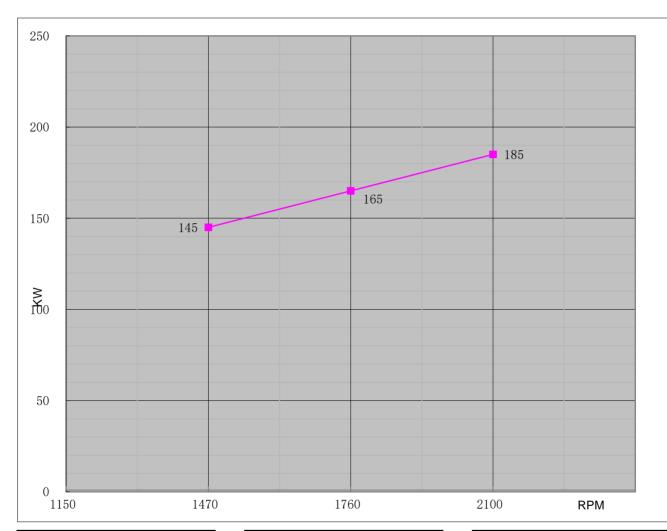
HESTER Eng	gine Data Sheet				
Raw Water Pressure	bar	2.5			
Min. Raw Water Temp.		$^{\circ}$	15.6		
Dow Water Dine Size	Raw Water Inlet		G1"		
Raw Water Pipe Size	G1 1/4"				
	HEATER SYSTEM				
Wattage		W	2000		
Voltage AC		V	220		
EL	ECTRICAL SYSTEM-DC				
System Voltage(Nominal)		V	24		
Starter motor		Kw	7.5		
Recommended Battery Capacity		АН	180		
Cold Cranking Amperes @ -18°C (0°F)		CCA	900		
Reserve Capacity (RC)		Min	360		
Charging Alternator Output		Amps	55		
Max. Starter Cranking Amps @4.5℃ (0°F)		Amps	420		
Min. Cranking Speed Required for Unaided Col	d Start	rpm	230		
	FUEL SYSTEM				
Injection Pump					
Injection Advance Angle	0	6			
Minimum Supply line Size	mm	10			
Minimum Return line Size	mm	10			
Fuel Management Control	Med	chanical			
-	Max. Fuel Consumption				
Idle Speed		rpm	700		
Max. Governed Speed		rpm	2310		
Maximum allowable fuel height above fuel pump)	m	3		
Governed Speed Rate		%	<10		
Enç	gine Performance Data				
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 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.) a	above Altitude Limit		3%		
Temperature above which output should be Lim	nited	°C (°F)	25 (77)		
Correction Factor per 5.6°C (10°F) abov	Correction Factor per 5.6°C (10°F) above Temperature Limit 1%				
Remark:					
1.All daa certified within 5%;					

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



DIESEL ENGINE

Н												
	Engine Mode	l		CH6-114-EC		Curve No.	C06114C		Date		2	2019/9/19
	Displacement	8.27	L	Aspiration		Turbocharged+Water co	oled	Power	Standar	d	U	L/FM
	Bore	114	mm	Cylinder Qty	y.	6		185	KW	@ 21	00	r/min
	Stroke	135	mm	Fuel Systen	n	In-Line; Mechanical		248	HP	@ 21	00	r/min



Torque						
Speed Torque						
RPM	N-m	lb-ft.				
1150						
1470	939	693				
1760	898	662				
2100	843	622				

Output Power					
Conned	0	Damar			
Speed	Output I	Power			
RPM	KW	HP			
1150					
1470	145	194			
1760	165	221			
2100	185	248			

Fuel Consumption						
Speed Consumption						
RPM	g/KW-HR	lb/BHP-HR				
1150						
1470	220	0.362				
1760	230	0.378				
2100	240	0.395				

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