

Engine Specification Sheet





Model	Ratings HP (kW) @ Rated speed rpm
Model	2900
CH6-110-EE	192 (143)

ENGINE SPECIFICATIONS					
Type 4 Cycle; In-line; water cooled; 6 Cylinder					
Aspiration	Turbocharged +Water Cooled				
Bore and Stroke	mm×mm	110x125			
Displacement	L	7.127			
Compression Ratio	16.8 : 1				
Combustion System	Direct Injection				
Rotation Viewed from flywheel	Viewed from flywheel Counter Clockwise				
Dry Weight Approx.	kg	1070			
Dimension Approx. (L*W*H)	mm	1685*1080*1520			
Crankshaft Centerline Height	mm	400			
Oil Capacity	L	26			
Coolant Capacity - Engine + Heat Exchanger	L	26			

Document No.: SS06110E Date: 2022/3/29 Version: A



Remark:

1.All data certified within 5%; 2.TBD - To Be Determined; 3.N/A - Not Applicable;

модел СН6-110-EE

Engine Equipment	Standard	Optional			
Air Cleaner	Drip proof	N/A			
Alternator	24V-DC, 70 Amps with Belt Guard	s with Belt Guard N/A			
Coupling	Bare Flywheel	N/A			
Engine Heater	220V-AC	110V-AC			
Exhaust Flex Connection	DN80	N/A			
Exhaust Protection	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	S)			
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, 6 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 operat compressor, fan, optional equipment, of 300ft (91,4m) altitude, 29.61 in.(752 follow the standard GB 252-2011.	operation at SAE sta	ndard J1394 conditions			
Altitude above which output should be	m (ft.)	91 (300)			
Correction Factor per 305m	()	3%			
Temperature above which output show	°C (°F)	25 (77)			
Correction Factor per 5.6°C (, ,	1%			

Document No.: SS06110E Date: 2022/3/29 Version: A



Engine Data Sheet

Engine Model CH6-110-EE Date 2021/12/30						
Drawing No.	CH6-110-ED .00	Performance Curve No.				
	192 HP @ 2900 RPM	Reference No.	14DS001E			
Rated Power	143 KW @ 2900 RPM	Version	A			
	<u> </u>					
	GE	ENERAL ENGINE DATA				
Type			-	ter cooled; 6 Cylinder		
Aspiration			Turbocharged	+Water Cooled		
Bore and Stroke			mm×mm	110x125		
Cylinder Liner Type			✓ Wet	☐ Dry		
Displacement			L	7.127		
Compression Ratio				8: 1		
Firing Order				3-6-2-4		
Combustion System				Injection		
Rotation Viewed from f	ront of engine			CW		
Valves Per Cylinder			Intake :1	Exhuast :1		
Valves lashes at cold		Intake	mm	0.3		
		Exhaust	mm	0.35		
Ignition Type			'	sion(Diesel)		
Charge Air Cooling Typ				Water		
Weight (Fuel Pump Cor			kg	1070		
Dimension (L*W*H)(Fue		mm	1685*1080*1520			
Flywheel/ Flywheel Hou	ise Dimension	11.5"/ SAE 2				
Torque at rated RPM		N.m	470			
		EXHAUST SYSTEM		- /-		
Exhaust Gas Temp. at n		℃	540			
Exhaust Gas Flow at M			kg/h	1342		
Max. Allowable Back Pr			kpa	10		
Minimum Exhaust Pipe		AID INTAVE OVETERA	DN	80		
Air Classes Torre		AIR INTAKE SYSTEM	Dav.T.	Diagonalda		
Air Cleaner Type				Disposable		
Air Flow Air Inlet Restriction Dirt			kg/h	1290		
Air Inlet Restriction Dirt			kpa	<u>6</u> 3		
All titlet restriction clea		JBRICATION SYSTEM	kpa	ა		
Oil Capacity	L	ODITION STOTEIN	L	26		
Max. Sump Oil Temp.			°C	120		
Normal Operating Oil F	Pressure Range		bars	3.4~5.0		
Oil Pressure at Idle		bar	>0.98			
On Fressure at faic		Dui	- 0.50			
Coolant Capacity - Eng	ine + Heat Exchanger	L	26			
	Trode Exoriarigor	Start Open	°C	76		
Thermostat Range	Thermostat Range Full Open			86		
Coolant Pressure Cap		I all open	°C bar	0.9		
Max. Engine Coolant Te	emp.	°C	98			
Engine Coolant Flow at	•		m ³ /h	14		
Raw Water Cooling Cap			m³/h	9		

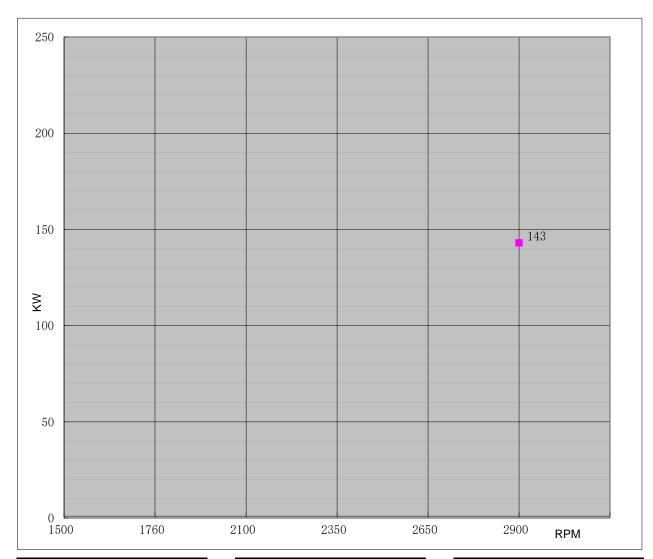
H ESTER En	gine Data Sheet		
Raw Water Pressure		bar	2
Min. Raw Water Temp.	-	℃	15.6
Day Water Dieg Cine	Raw Water Inlet	1 (G1"
Raw Water Pipe Size	Raw Water Outlet	G1	. 1/4"
	HEATER SYSTEM		
Wattage		W	3000
Voltage AC		V	220
E	LECTRICAL SYSTEM-DC		
System Voltage(Nominal)		V	24
Starter motor		Kw	6
Recommended Battery Capacity		AH	150
Cold Cranking Amperes @ -18°C (0°F)		CCA	800
Reserve Capacity (RC)		Min	290
Charging Alternator Output		Amps	70
Max. Starter Cranking Amps @4.5°C (0°F)		Amps	330
Min. Cranking Speed Required for Unaided Cold	Start	rpm	240
	FUEL SYSTEM	.I	
Injection Pump			
Injection Advance Angle	0	24	
Minimum Supply line Size	mm	10	
Minimum Return line Size	mm	10	
Fuel Management Control	Mec	hanical	
Max. Fuel Consumption		g/kw,h	235
Idle Speed		rpm	750
Max. Governed Speed		rpm	3190
Maximum allowable fuel height above fuel pump)	m	3
Governed Speed Rate		%	<10
En	gine Performance Data		
Estimated free field soud pressure level at 1 meter speed(Includes Noise from: exhaust;: Cooling System Components)		dBa	108
All data is based on the engine operating with fu are compressor, fan, optional equipment, and dri conditions of 300ft (91,4m) altitude, 29.61 in.(752 0# diesel fuel follow the standard GB 252-2011.	iven components.;Data is base	ed on operation at SA	NE standard J1394
Altitude above which output should be Limited		m (ft.)	91 (300)
Correction Factor per 305m.(1,000ft.) a	bove Altitude Limit		3%
Temperature above which output should be Limi	ted	°C (°F)	25 (77)
	ve Temperature Limit	+	1%

1.All daa certified within 5%; 2.TBD - To Be Determined; 3.N/A - Not Applicable;



Performance Curve

Engine Mode	ı		CH6-110-EE		Curve No. C0		6110E	D	ate		2021/12/30
Displacement	7.13	L	Aspiration		Turbocharged+Water cod	oled	Power	Standa	rd		UL/FM
Bore	110	mm	Cylinder Qty	y .	6, In-Line		143	KW	@	2900) r/min
Stroke	125	mm	Fuel System	า	Mechanical		192	HP	@	2900) r/min



Torque						
Speed Torque						
RPM	N-m	lb-ft.				
1500						
1760						
2100						
2350						
2650						
2900	470	347				

	Output Power						
Speed	Speed Output Power						
RPM	KW	HP					
1500							
1760							
2100							
2350							
2650							
2900	143	192					

Fuel Consumption						
Speed	Consur	nption				
RPM		lb/BHP-HR				
1500	· ·					
1760						
2100						
2350						
2650						
2900	235	0.386				