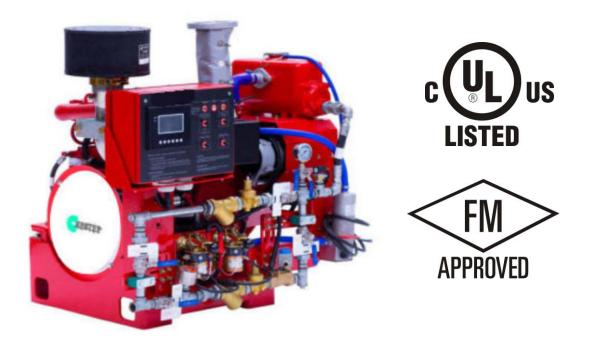


MODEL CH6-127-EB

Engine Specification Sheet



Model	Ratings HP (kW) @ Rated speed rpm							
Model	1760	2100						
CH6-127-EB	382 (512)	536 (400)						

ENGINE SPECIFICATIONS							
Туре	4 Cycle; In-lir	4 Cycle; In-line; water cooled; 6 Cylinder					
Aspiration	Turboch	arged +Water Cooled					
Bore and Stroke	mm×mm	127×165					
Displacement	L	12.54					
Compression Ratio		16:1					
Combustion System	[Direct Injection					
Rotation Viewed from flywheel	Сс	ounter Clockwise					
Dry Weight Approx.	kg	1600					
Dimension Approx. (L*W*H)	mm	2130*1170*1620					
Crankshaft Centerline Height	mm	565					
Oil Capacity	L	36					
Coolant Capacity - Engine + Heat Exchanger	L	55					

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MODEL CH6-127-EB

Engine Equipment	Standard	Optional				
Air Cleaner	Drip proof	N/A				
Alternator	24V-DC, 70Amps 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 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 (SS316 or	Bronze)			
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					
Starters	24V-DC,8.5KW	N/A				
Throttle Control	Adjustable speed control	N/A N/A				
Water Pump	ater Pump Centrifugal Type, Gear Driven					
compressor, fan, optional equipment,	ing with fuel system, lubricating oil pump, and driven components.; Data is based or mm) Hg dry barometer, and 77°F (25°C) i	operation at SAE star	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 (10°F) above Temperature Limit		1%			
Remark:		1				
1.All data certified within 5%; 2.TBD - To Be Determined; 3.N/A - Not Applicable;						

HESTER Engine Data Sheet									
Engine Model	СН6-127-ЕВ	Date	2023/12/15						
Drawing No.	CH6-127-EB.00	Performance Curve No.	C06127B						
	536 HP @ 2100 RPM Reference No. 14DS001E								
Rated Power	400KW @ 2100 RPM	A							
1-	GI	ENERAL ENGINE DATA							
Туре			4 Cycle;In-line; water cooled; 6 Cylinde						
Aspiration			Turbocharged +Water Cooled						
Bore and Stroke			mm×mm 127×165						
Cylinder Liner Type			□ Wet ⊡ Dry						
Displacement			L	12.54					
Compression Ratio				6:01					
Firing Order Combustion System				B-6-2-4					
Rotation Viewed from f	ront of onging			Injection					
Valves Per Cylinder			CW Intake :2 Exhuast :2						
		Intake		0.4					
Valves lashes at cold		Exhaust	mm	0.4					
Ignition Type		mm 0.6 Compression(Diesel)							
Charge Air Cooling Typ		Raw Water							
Dry Weight Approx.		kg	1600						
Dimension Approx. (L	*W*H)	mm	2130*1170*1620						
Flywheel/ Flywheel Hou		14"/ SAE 1							
		EXHAUST SYSTEM							
Exhaust Gas Temp. at n	nax. rating/power	°C	550						
Exhaust Gas Flow at M		kg/h	1979						
Max. Allowable Back Pr	essure	kpa	7.5						
Minimum Exhaust Pipe	Diameter		DN	125					
-		AIR INTAKE SYSTEM							
Air Cleaner Type			Dry	Туре					
Air Flow at Max. output		kg/h	1899						
Air Inlet Restriction Dirt	У	kpa	6						
Air Inlet Restriction Clea	an	kpa	3						
	LI	UBRICATION SYSTEM							
Oil Capacity		L	36						
Max. Sump Oil Temp.		°C	105						
Normal Operating Oil F	Pressure Range	bars	3.5~5.5						
Oil Pressure at Idle		bar	>1						
		COOLING SYSTEM							
Coolant Capacity - Eng	ine + Heat Exchanger	1	L	55					
Thermostat Range		Start Open	°C	76					
		Full Open	°C	88					
Coolant Pressure Cap		bar	0.9						
Max. Engine Coolant Te	emp.	C°	96						
Engine Coolant Flow at	Full Load		m³/h	24.9					
Raw Water Cooling Cap	pacity		m ³ /h	20					
Raw Water Pressure			bar	2					
Min. Raw Water Temp.			°C	15.6					

	G1 1/2"				
Raw Water Pipe Size	Raw Water Outlet	G2"			
	HEATER SYSTEM	•			
Wattage		W	3000		
Voltage AC		V	220		
E	LECTRICAL SYSTEM-DC				
System Voltage(Nominal)		V	24		
Starter motor		Kw	8.5		
Recommended Battery Capacity		AH	180		
Cold Cranking Amperes @ -18°C (0°F)		CCA	900		
Reserve Capacity (RC)		Min	360		
Charging Alternator Output		Amps	70		
Max. Starter Cranking Amps @4.5°C(0°F)		Amps	337		
Min. Cranking Speed Required for Unaided Cold	Start	rpm	280		
	FUEL SYSTEM				
Injection Pump					
Injection Advance Angle		0	18		
Minimum Supply line Size		mm	12		
Minimum Return line Size	mm	12			
Fuel Management Control	Mechanical				
Max. Fuel Consumption	g/kw,h	220			
Idle Speed	rpm	600±50			
Max. Governed Speed	rpm	2310			
Maximum allowable fuel height above fuel pump	m	3			
Governed Speed Rate	%	<10			
Er	ngine Performance Data	•			
Estimated free field soud pressure level at 1 met speed(Includes Noise from: exhaust;: Cooling Sys Components)	dBa	113			
All data is based on the engine operating with fu are compressor, fan, optional equipment, and dr conditions of 300ft (91,4m) altitude, 29.61 in.(752 0# diesel fuel follow the standard GB 252-2011.	iven components.;Data is bas	ed on operation at S	AE standard J1394		
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	ited	°C (°F)	25 (77)		
Correction Factor per 5.6°C (10°F) above		1%			
mark:		<u> </u>			

Engine Mod			16-127-EB					6127B		ate		2023/12/	
Displacement	12.54	L	Aspiration		Turboo	harged+W		oled	Power				UL/FM
Bore	127	mm	Cylinder Qty			6, In-Li			400		_	2100	
Stroke	165	mm	Fuel System	า		Mechani	cal		536	HP	@	2100	r/min
450													
									400				
400									1				1
					382								
N N N													
350													1
300 1150]	470		176	0		21	100		RP	M 23	50
1	Torque		(Output Power			Fuel Consumption				,		
Speed	Torque		Spee			t Power			peed			ption	
1150	-m	lb-ft.	RPN 1150	0	KW	HP		1	.150	/KW-H	ĸ	Ib/BHF	'-HR
1470 1760 20		1528	1470 1760	0	382	512		1	.470 .760	200		0.32	
2100 18	19	1341	2100	0	400	536		2	2100	220		0.36	2
										R	EV:		А