



## Engine Data Sheet

<b>Engine Model</b>	CH6-128-E	<b>Date</b>	2017/11/27
<b>Drawing No.</b>	CH6-128-E.00	<b>Performance Curve No.</b>	C06128
<b>Rated Power</b>	426 HP @ 2020 RPM	<b>Reference No.</b>	14DS001E
	318 KW @ 2020 RPM	<b>Version</b>	F

### GENERAL ENGINE DATA

Type	4 Cycle; In-line; water cooled; 6 Cylinder		
Aspiration	Turbocharged		
Bore and Stroke	mm×mm	128×153	
Cylinder Liner Type	<input checked="" type="checkbox"/> Wet <input type="checkbox"/> Dry		
Displacement	L	11.8	
Compression Ratio	17:01		
Firing Order	1-5-3-6-2-4		
Combustion System	Direct Injection		
Rotation Viewed from front of engine	CW		
Valves Per Cylinder	Intake :2 Exhaust :2		
Valves lashes at cold	Intake	mm (inch)	0.4
	Exhaust	mm (inch)	0.65
Ignition Type	Compression(Diesel)		
Charge Air Cooling Type	Raw Water		
Weight (Fuel Pump Configuration)	kg	1150	
Dimension (L*W*H)(Fuel Pump Configuration)	mm	1790*1050*1490	
Flywheel/ Flywheel House Dimension	SAE 14"/ SAE 1		

### EXHAUST SYSTEM

Exhaust Gas Temp.	°C	600
Exhaust Gas Flow at Max. Load	kg/h	1886
Max. Allowable Back Pressure	kpa	12
Minimum Exhaust Pipe Diameter	DN	125

### AIR INTAKE SYSTEM

Air Cleaner Type	Dry Type, Disposable		
Max. Intake Air Flow	m <sup>3</sup> /h	1550	
Air Inlet Restriction Dirty	kpa	6.2	
Air Inlet Restriction Clean	kpa	3	

### LUBRICATION SYSTEM

Oil Capacity	L	40
Max. Sump Oil Temp.	°C	120
Normal Operating Oil Pressure Range	bars	3.5~6
Oil Pressure at Idle	bar	>0.7

### COOLING SYSTEM

Coolant Capacity - Engine + Heat Exchanger	L	35	
Thermostat Range	Start Open	°C	85
	Full Open	°C	95
Coolant Pressure Cap	bar	0.9	
Max. Engine Coolant Temp.	°C	105	
Engine Coolant Flow at Full Load	m <sup>3</sup> /h	41	
Min./Max. Raw Water Cooling Capacity	m <sup>3</sup> /h	15~23	
Min. /Max. Raw Water Pressure	bar	1 ~ 3	



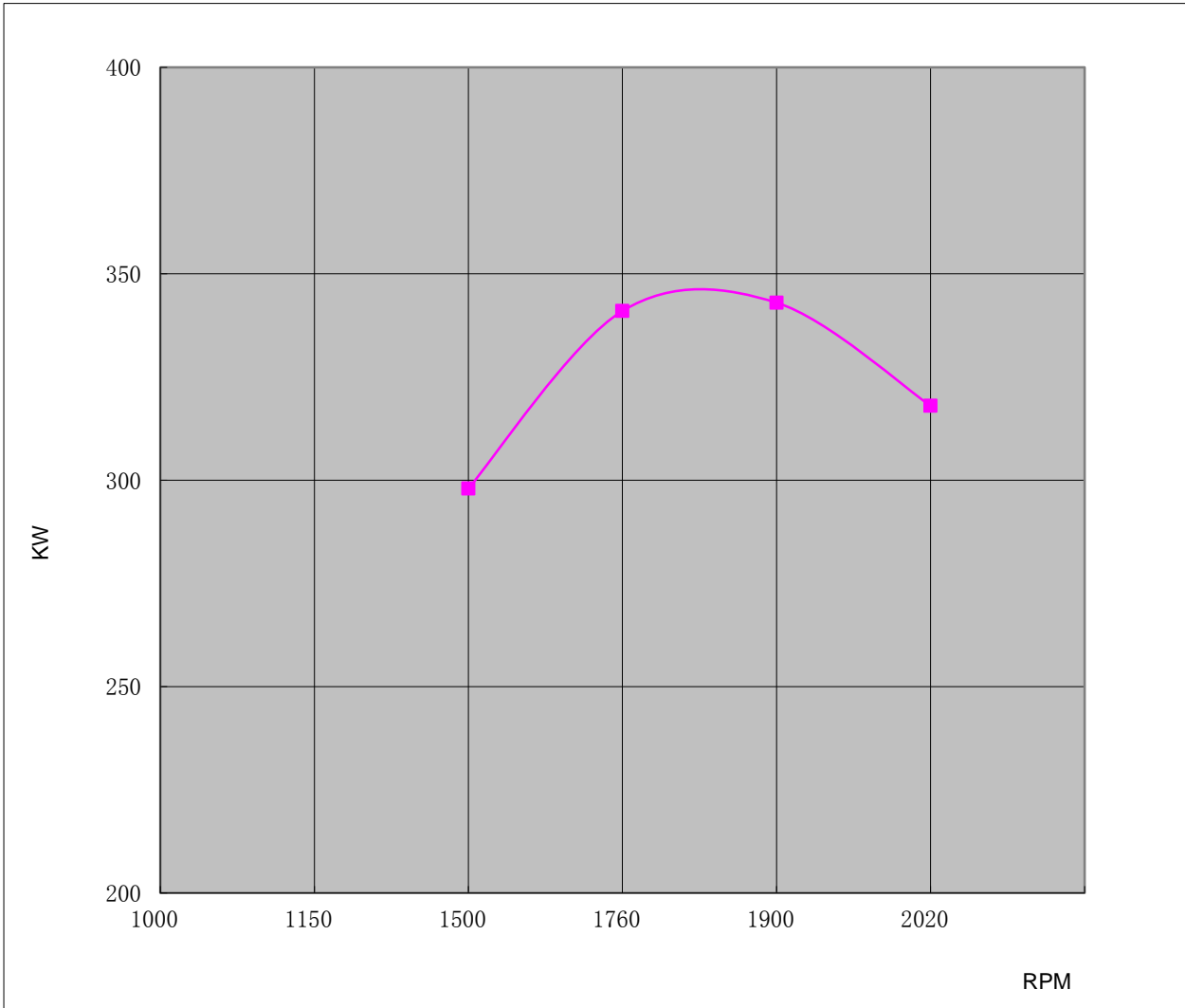
## Engine Data Sheet

Min. Raw Water Temp.	°C	15.6
Raw Water Pipe Size	Raw Water Inlet	G1 1/2"
	Raw Water Outlet	G2"
<b>HEATER SYSTEM</b>		
Wattage	W	2200
Voltage AC	V	240
<b>ELECTRICAL SYSTEM-DC</b>		
System Voltage(Nominal)	V	24
Starter motor	Kw	7.5
Recommended Battery Capacity	AH	180
Cold Cranking Amperes @ -18°C (0°F)	CCA	950
Reserve Capacity (RC)	Min	216
Charging Alternator Output	Amps	70
Max. Starter Cranking Amps @4.5°C (0°F)	Amps	421
Min. Cranking Speed Required for Unaided Cold Start	rpm	224
<b>FUEL SYSTEM</b>		
Injection Pump		
Injection Advance Angle	°	14
Minimum Supply line Size	mm	10
Minimum Return line Size	mm	10
Fuel Management Control	Mechanical	
Max. Fuel Consumption	g/kw,h	194
Idle Speed	rpm	800
Max. Governed Speed	rpm	2280
Maximum allowable fuel height above fuel pump	m	3
Governed Speed Rate	%	<10
<b>Engine Performance Data</b>		
Estimated free field sound pressure level at 1 meter with full-load governed speed(Includes Noise from: exhaust; Cooling System and Driven Components)	dBa	102
<p>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.</p>		
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%	
<p>Remark:            1.All daa certified within 5%;            2.TBD - To Be Determined;            3.N/A - Not Applicable;</p>		



# DIESEL ENGINE

Engine Model		CH6-128-E		Curve No.		C06128		Date		2017/11/27	
Displacement		11.8 L		Aspiration		Turbocharged +Water Cooled		Power Standard		UL/FM	
Bore		128 mm		Cylinder Qty.		6		318 KW @ 2020		r/min	
Stroke		153 mm		Fuel System		In-Line; Mechanical; RSV		426 HP @ 2020		r/min	



Torque		
Speed RPM	Torque	
	N-m	lb-ft.
1000		
1150		
1500	2110	1556
1760	2120	1563
1900	1909	1408
2020	1670	1232

Output Power		
Speed RPM	Output Power	
	KW	HP
1000		
1150		
1500	298	400
1760	341	457
1900	343	460
2020	318	426

Fuel Consumption		
Speed RPM	Consumption	
	g/KW-HR	lb/BHP-HR
1000		
1150		
1500	194	0.319
1760	193	0.317
1900	193	0.317
2020	194	0.319

REF: 14DS003PC-L  
REV: F