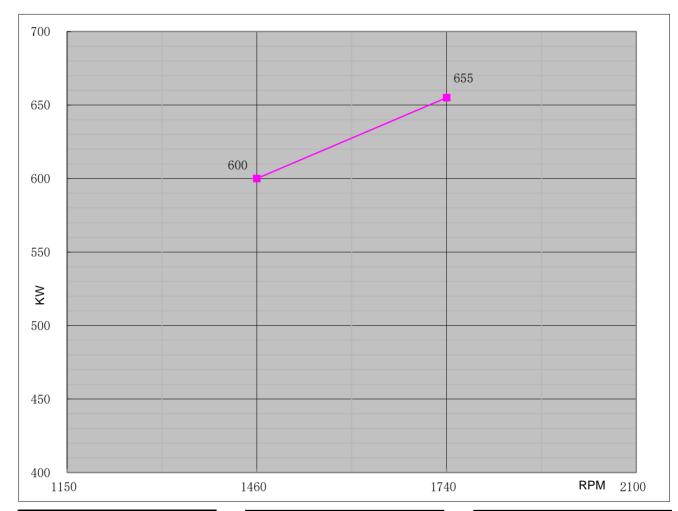


DIESEL ENGINE

Engine Model		CH12-128-EB			Curve No. C12		2128BF Date		ate		2021/3/31
Displacement	21.93	L	Aspiration		Turbocharged+Water cod	oled	Power	Standa	rd		UL/FM
Bore	128	mm	Cylinder Qty	/.	V-Type, 12		655	KW	@	1740	r/min
Stroke	142	mm	Fuel System	1	Mechanical		878	НР	@	1740	r/min



Torque						
Speed	Torqu	110				
Speed RPM	Torq ı N-m	ue lb-ft.				
1150	14-111	10-11.				
1460	3925	2894				
1740	3597	2653				
1740	3391	2033				

Output Power							
Speed Output Power							
RPM	KW .	HP					
1150							
1460	600	805					
1740	655	878					

Fuel Consumption					
C I	0				
Speed	Consur	nption			
RPM	g/KW-HR	lb/BHP-HR			
1150					
1460	207	0.340			
1740	206	0.339			

REV:

Α



Engine Data Sheet

Engine Model	CH12-128-EB	Date	202	21/3/31		
Drawing No.	CH12-128-EC.00	Document No.	DS12128BF			
Brawing 140.	878 HP @ 1740 RPM	Performance Curve No.		2128BF		
Rated Power	655 KW @1740 RPM	Version	A			
	033 KW @1740 KFW	Version		<u> </u>		
	G	ENERAL ENGINE DATA				
Туре			4 Cycle; V-type; wa	ater cooled; 12 Cylinder		
Aspiration			Turbocharge	d +Water Cooled		
Bore and Stroke			mm×mm	128x142		
Cylinder Liner Type			✓ Wet	Dry		
Displacement			L	21.927		
Compression Ratio			1	15:01		
Firing Order			1-12-5-8-3-10-6-7-2-11-4-9			
Combustion System			Direct	t Injection		
Rotation Viewed from	flywheel		Counte	r Clockwise		
Valves Per Cylinder			Intake ::	1 Exhuast :1		
		Intake	mm	0.25		
Valves lashes at cold		Exhaust	mm	0.35		
Charge Air Cooling Ty	pe		Raw Water			
Dry Weight Approx.			kg	2150		
Dimension Approx. (l	_*W*H)		mm	2290*1440*1760		
	Flywheel/ Flywheel House Dimension			14"/ SAE 1		
		EXHAUST SYSTEM				
Exhaust Gas Temp.			℃	575 @ 1740rpm		
Exhaust Gas Flow			m³/h	8940 @ 1740rpm		
Max. Allowable Back P	Max. Allowable Back Pressure			10		
Minimum Exhaust Pipe	e Diameter		DN	2x150		
Minimum exhaust pipe diameter is based on 6 meter of pipe, one elbow, and a silencer. Pressure drop no greater than one half the max. allowable back pressure						
AIR INTAKE SYSTEM						
Air Cleaner Type		Dry Type				
Air Flow	* *			3264 @1740rpm		
Max. Allowable Air Inle	et Restriction		kpa	5.5		
	L	UBRICATION SYSTEM				
Oil Capacity			L	40		
Engine Normal Operat	ting Sump Oil Temp.		$^{\circ}$	80-120		
Normal Operating Oil	Normal Operating Oil Pressure Range			2.5~6		
Oil Pressure at Idle			bar	>1		
		COOLING SYSTEM				
Coolant Capacity - En	gine + Heat Exchanger		L	70		
Thormostat Panca		Start Open	$^{\circ}$ C	71		
Thermostat Range		Full Open	$^{\circ}\!\mathbb{C}$	85		
Coolant Pressure Cap			bar	0.9		
Raw Water Working Pr	aw Water Working Pressure Range at Heat Exchanger			5		
Engine Normal Operat	ting Coolant Temp.		°C	71-98		
Engine Coolant Flow a	t Full Load	_	m³/h	40		

711	Engine Data Sheet					
Minimum Raw Water Flow @ Engine Speed (1460	1740			
	er Temperatures to 16 °C (m³/h)	17	17			
Raw Wat	er Temperatures to 38 °C (m³/h)	21	21			
Raw Water Pipe Size	Raw Water Inlet	G2"				
Naw 174001 1 1po 0120	Raw Water Outlet	G2 1/2"				
	HEATER SYSTEM					
Wattage		W	4500			
Voltage AC		V	220			
	ELECTRICAL SYSTEM-DC					
System Voltage(Nominal)		V	24			
Starter motor		Kw	7			
Recommended Battery Capacity		АН	200			
Cold Cranking Amperes @ -18°C (0°F)	CCA	1000				
Charging Alternator Output	Amps	45				
	FUEL SYSTEM					
Injection Pump						
Injection Advance Angle		0	21±1			
Minimum Supply line Size		mm	12			
Minimum Return line Size		mm	12			
Fuel Management Control Mecha			hanical			
Idle Speed		rpm	800			
Governed Speed Rate		%	<10			
	Engine Performance Data					
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 Limite	ed	m (ft.)	91 (300)			
·	Correction Factor per 305m.(1,000ft.) above Altitude Limit 3%					
Temperature above which output should be I	·	°C (°F)	25 (77)			
	Correction Factor per 5.6°C (10°F) above Temperature Limit					
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1%					

Remark:

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