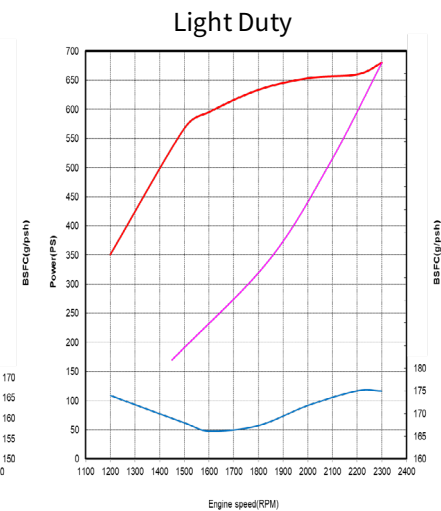
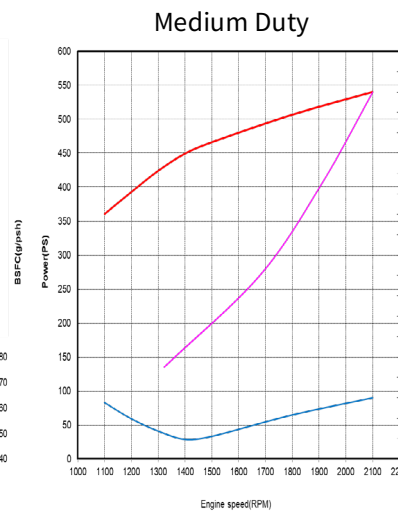
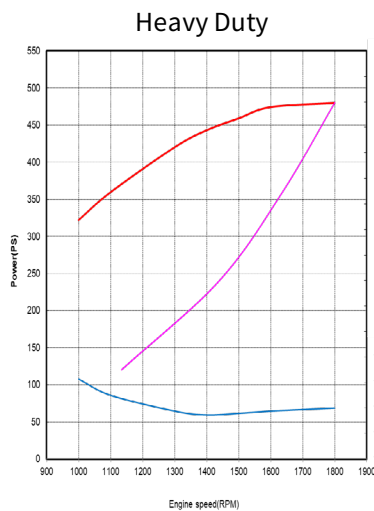
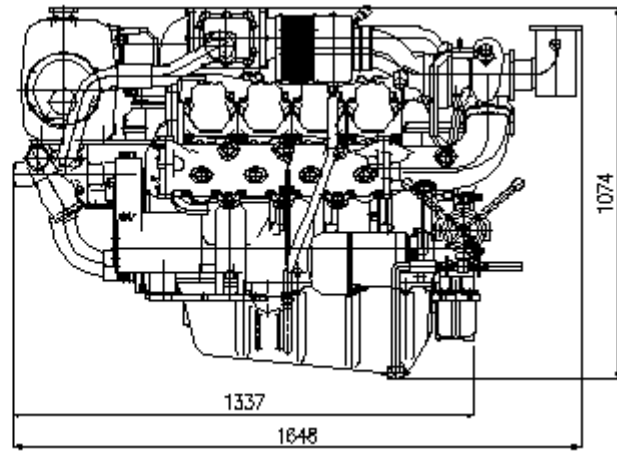
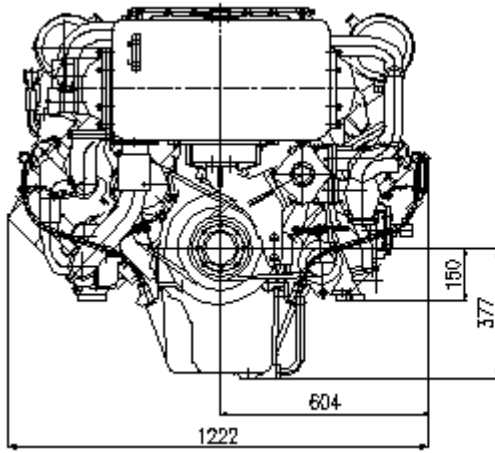


POWER RATING

Production tolerance : $\pm 3\%$

MODEL	CONDITIONS	POWER	rpm	Base Engine
V158TIH	HEAVY DUTY	480PS (353kW)	1,800	D2848LB
V158TIM	MEDIUM DUTY	540PS (397kW)	2,100	
V158TIL	LIGHT DUTY	680PS (500kW)	2,300	

Note : 1) No reduction in rating for intake air temperature is up to 45 °C (318K) and sea water temperature is up to 32 °C (305K) , relative humidity is up to 60 % all data are based on operation to ISO 3046.



- **Heavy Duty** : Operation hours are unlimited per year, at average load is up to 90 % , at full load is up to 80 %
Typical gearbox ratio: 2.5 ~ 6
(Fishing trawler, Tug boat, Pushing vessel, Cargo boat, Freighter, Ferry)
- **Medium Duty** : Operation hours are up to 3,000 per year, at average load is up to 70 %
At full load is (up to 30 % / 4hrs per 12 hour operation period).
Typical gearbox ratio: 2 ~ 3.5
(Fishing boat, Pilot boat, Escort boat, Passenger boat, Ferry, Cruising vessel)
- **Light Duty** : Operation hours are up to 1,000 per year, at average load is up to 50 %
At full load is (up to 20 % / 2hrs per 12 hour operation period)
Typical gearbox ratio: 1 ~ 2.5
(Light weight fishing boat, Yacht, Coastguard boat, Fast boat, Fire pump, Navy, Bow thruster)

Engine Specification			Model	Units	V158TIH	V158TIM	V158TIL
Engine type			4 cycle, V type, direct- injection, water cooled with wet turbo charger & inter-cooler				
Rating output (B.H.P)			PS(kW)/rpm	480(353)/1,800	540(397)/2,100	680(500)/2,300	
Displacement			cc	14,618			
Cylinder number - bore(φ) x stroke			mm	8 - φ128 x 142			
Valve clearance at cold		In / Ex	mm	0.25 / 0.35			
Low idling rpm			rpm	725 ± 25			
No load max. rpm			rpm	below 2,070	below 2,415	below 2,645	
Mean effective pressure			kg/cm ²	16.4	15.8	18.2	
Mean piston speed			m/sec.	8.52	9.94	10.89	
Compression ratio				15.5 : 1	15.5 : 1	15.5 : 1	
Firing order				1 - 5 - 7 - 2 - 6 - 3 - 4 - 8			
Governor type of injection pump				Mechanical variable speed (R.Q.V)			
Fuel consumption			g / PS.h	160	165	175	
			Lit / h	93	107	143	
Injection timing (B.T.D.C)			deg	15 °± 1°	16 °± 1°	18 °± 1°	
Starting system				Electric Starting by starter motor			
Starter motor capacity			V - kW	24 - 6.6			
Alternator capacity			V - A	24 - 80			
Battery			V - Ah	24 - 200			
Cooling system				Indirect sea water cooling with heat exchanger			
Cooling water capacity		Max. / Min.	lit.	89 / 78			
Fresh water pump type				Centrifugal type, driven by belt			
Sea water pump type				Rubber impeller type driven by belt			
Lubricating oil (Engine)		pan capacity	lit.	Max : 31, Min : 25 (Engine total : 35)			
		pressure	kg/cm ²	Full : 3.5, Idle : 1.2			
Direction of revolution		crankshaft		Counter clockwise viewed from stern side			
Engine Size (L x W x H)			mm	1,337 x 1,222 x 1,074			
Engine dry weight			kg	1,350	1,350	1,435	

psi = kg/cm² x 14.22
 lb/ft. = N.m x 0.737
 kW = 0.2388 kcal/s

lb = kg x 2.205
 lb/PS.h = g/kW.h x 0.00162
 cfm = m³/min x 35.3

hp = PS x 0.98635
 U.S gal. = liter x 0.264

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※ Specifications are subject to change without prior notice.