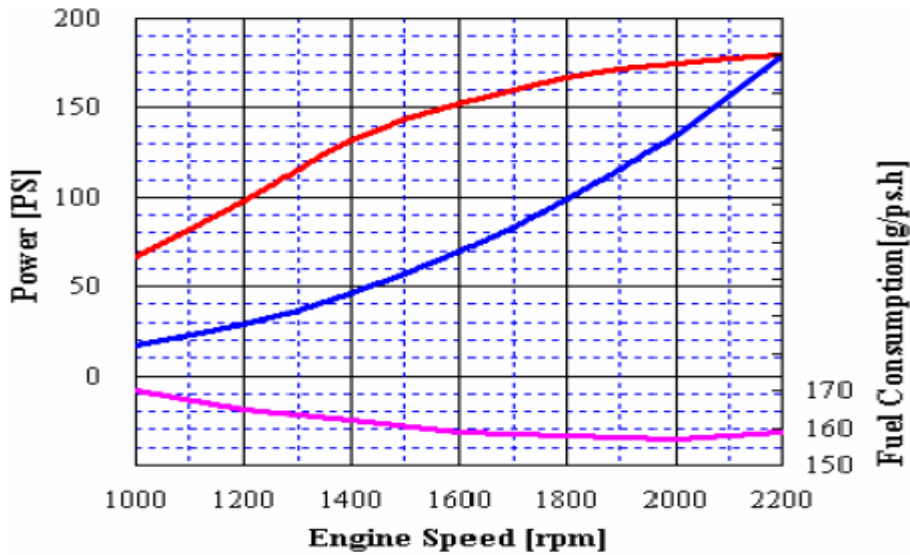
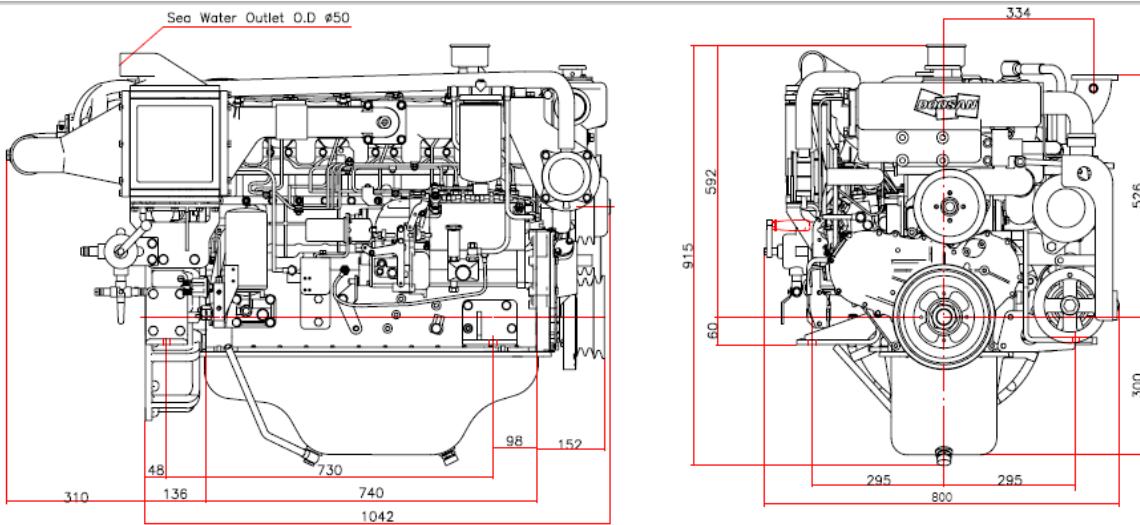


## L066TI MARINE ENGINE

POWER RATING		Production tolerance : ± 3%		
MODEL	CONDITIONS	POWER	rpm	Base Engine
L066TIH	HEAVY DUTY	180PS (132kW)	2,200	DB58TI

**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, Pushing vessel, Cargo boat, Ferry)

Engine Specification		
Model	Units	L066TIH
Engine type		4 cycle, In line, direct- injection, water cooled with turbo charger & inter-cooler
Rating output (B.H.P)	PS(kW)/rpm	180(132)/2,200
Displacement	cc	5,785
Cylinder number - bore( $\phi$ ) x stroke	mm	6 - $\phi$ 102 x 118
Valve clearance at cold	In / Ex	mm 0.4 / 0.4
Low idling rpm	rpm	750 $\pm$ 25
No load max. rpm	rpm	below 2,420
Mean effective pressure	kg/cm <sup>2</sup>	12.73
Mean piston speed	m/sec.	7.87
Compression ratio		19.5 : 1
Firing order		1 - 5 - 3 - 6 - 2 - 4
Compression pressure	at 200 rpm	kg/cm <sup>2</sup> above 30 ( Initial condition )
Governor type of injection pump		Mechanical all speed (R.S.V)
Fuel consumption	g/PS.h	159
	lit / h	34.5
Injection timing (B.T.D.C)	deg	15° $\pm$ 1°
Fuel inj.nozzle opening pressure	kg/cm <sup>2</sup>	200
Starting system		Electric Starting by starter motor
Starter motor capacity	V- kW	24 - 4.5
Alternator capacity	V- A	24 - 45
Battery	V- Ah	24 - 100
Cooling system		Indirect sea water cooling with heat exchanger
Cooling water capacity	Max. / Min.	lit 25 / 20
Fresh water pump type		Centrifugal type, driven by V- belt
Sea water pump type		Rubber impeller type driven by V- belt
Lubricating oil (Engine)	pan capacity	lit Max : 19 , Min : 14 ( Engine total : 21)
	pressure	kg/cm <sup>2</sup> Full : 3.5, Idle : 1.0
Marine gear	Model	DMT70TF ( Dong-I )
	Gear ratio	1.61 2.06 2.45 2.82 3.12 3.46
Direction of revolution	crankshaft	Counter clockwise viewed from stern side
	propeller	Clockwise viewed from stern side
Engine size (L x W x H)	without R/G	mm 1,042 x 800 x 915
	with R. gear	kg 1,397 x 800 x 915
Engine dry weight	without R/G	kg 535
	with R. gear	kg 717

psi = kg/cm<sup>2</sup> 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 = m<sup>3</sup>/min x 35.3

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