

Production tolerance : ± 3%

Spec.	Model	Units	Auxiliary		
			AD126TIP	AD196TI	AD126TI
Engine type			4 cycle, in line, direct- injection, water cooled with wet- turbo charger & inter-cooler		
Rating output (B.H.P)	50 Hz	PS(kW) / rpm		235(173)/1,500 (AD196TIF)	280(206) /1,500 (AD126TIF)
	60 Hz			270(199)/1,800 (AD196TIS)	336(247) /1,800 (AD126TIS)
Displacement		cc	11,051		
Cyl. No. – bore(φ) x stroke		mm	6 - Φ123 x 155		
Valve clearance at cold		mm	0.3 / 0.3		
Low idling rpm		rpm	800 ± 50		
No load max. rpm (50Hz / 60Hz)		rpm	Mechanical governor : 1575 (52.5 Hz) / 1890(63Hz),		
			Electric governor : 1500 (50 Hz) / 1800(60Hz),		
Mean effective press. (Initial)		kg/cm <sup>2</sup>	11.40 / 11.13	12.76 / 12.21	15.20 / 15.20
Mean piston speed (50Hz / 60Hz)		m/sec.	7.75 / 9.30		
Compression ratio			17.1	16.5	17
Max. firing press. of cylinder		kg/cm <sup>2</sup>	106	105	130
Comp. Press. (at 200 rpm)		kg/cm <sup>2</sup>	About 28 (Initial condition)		
Governor type of inj. pump			Mechanical Governor	Electric Governor	Electric Governor
Fuel consumption		g/PS.h	156 / 158	145 / 148	150 / 152
		liter/h	39 / 47	41 / 48	50 / 61
Injection timing (B.T.D.C)		deg.	14° ± 1°	16° ± 1°	14° ± 1°
Inj. nozzle opening press.		kg/cm <sup>2</sup>	1 <sup>st</sup> : 160 2 <sup>nd</sup> :220	220	1 <sup>st</sup> : 160 2 <sup>nd</sup> :220
Starting system			Electric Starting by starter motor		
Starter motor capacity		V- kW	24 V – 5.4		
Alternator capacity		V- A	24 V – 80		
Battery		V- Ah	24V – 150		
Cooling system			Indirect cooling by sea water with heat exchanger		
Cooling water capacity		lit	Max. : 25 , Min. : 23		
Fresh water pump type			Centrifugal type, driven gear		
Sea water pump type			Rubber impeller type driven by gear		
Lub. Oil (Engine)	Pan capacity	lit	Max : 25, Min : 19 ( Engine total : 27)		
	Pressure	kg/cm <sup>2</sup>	Full : 3.5, Idle: 1.2		
Revolution of Crankshaft			Counter clockwise viewed from stern side		
Engine size (L x W x H) (Except reduction gear)		mm	1,193 x 854 x 1,072	1,193 x 854 x 1,072	1,193 x 854 x 1,072
Engine dry weight (Except reduction gear)		kg	975	1,009	1,060

Production tolerance : ± 3%

Spec.		Model	Units	Emergency	
				AD126TI	
Engine type				4 cycle, in line, direct- injection, water cooled with <b>wet- turbo charger &amp; inter-cooler</b>	
Rating output (B.H.P)	50 Hz	PS(kW) / rpm		280(206) / 1,500 (AD126TIF)	
	60 Hz			336(247) / 1,800 (AD126TIS)	
Displacement		cc		11,051	
Cyl. No. – bore(φ) x stroke		mm		6 - Φ123 x 155	
Valve clearance at cold		mm		0.3 / 0.3	
Low idling rpm		rpm		800 ± 50	
No load max. rpm (50Hz / 60Hz)		rpm		Mechanical governor : 1575 (52.5 Hz) / 1890(63Hz), Electric governor : 1500 (50 Hz) / 1800(60Hz),	
Mean effective press. (Initial )		kg/cm <sup>2</sup>		15.20 / 15.20	
Mean piston speed (50Hz / 60Hz)		m/sec.		7.75 / 9.30	
Compression ratio				17	
Max. firing press. of cylinder		kg/cm <sup>2</sup>		130	
Comp. Press. (at 200 rpm)		kg/cm <sup>2</sup>		About 28 (Initial condition)	
Governor type of inj. pump				<b>MECHANICAL GOVERNOR</b>	
sFuel consumption		g/PS.h		150 / 152	
		liter/h		50 / 61	
Injection timing (B.T.D.C)		deg.		14° ± 1°	
Inj. nozzle opening press.		kg/cm <sup>2</sup>		<b>1<sup>st</sup> : 160 2<sup>nd</sup> : 220</b>	
Starting system				<b>Electric Starting by starter motor</b>	
Starter motor capacity		V- kW		<b>24 V – 5.4</b>	
Alternator capacity		V- A		<b>24 V – 80</b>	
Battery		V- Ah		<b>24V – 150</b>	
Cooling system				<b>Indirect cooling by sea water with heat exchanger</b>	
Cooling water capacity		lit		<b>Max. : 25 , Min. : 23</b>	
Fresh water pump type				<b>Centrifugal type, driven gear</b>	
Sea water pump type				<b>Rubber impeller type driven by gear</b>	
Lub. Oil (Engine)	Pan capacity	lit		<b>Max : 25, Min : 19 ( Engine total : 27)</b>	
	Pressure	kg/cm <sup>2</sup>		<b>Full : 3.5, Idle: 1.2</b>	
Revolution of Crankshaft				<b>Counter clockwise viewed from stern side</b>	
Engine size (L x W x H) (Except reduction gear)		mm		<b>1,193 x 854 x 1,072</b>	
Engine dry weight (Except reduction gear)		kg		<b>1,060</b>	