

Production tolerance : ± 3%

Spec. / Model		Units	Auxiliary			
			AD136	AD136T	AD136TI	AD086TI
Engine type			4 cycle, in line, direct-injection, water cooled naturally aspirated	4 cycle, in line, direct-injection, water cooled with turbo charger	4 cycle, in line, direct-injection, water cooled with turbo charger & inter-cooler	4 cycle, in line, direct-injection, water cooled with Wet-turbo charger & inter-cooler
Rating output (B.H.P)	50 Hz	PS(kW) / rpm	105(77)/1,500 (AD136F)	145(107)/1,500 (AD136TF)	157(115)/1,500 (AD136TIF)	205(151) /1,500 (AD086TIF)
	60 Hz		126(93)/1,800 (AD136S)	170(125)/1,800 (AD136TS)	188(138)/1,800 (AD136TIS)	253(186) /1,800 (AD086TIS)
Displacement		cc	8,071			
Cyl. No. – bore(φ) x stroke		mm	6 - Φ111 x 139			
Valve clearance at cold		mm	0.3 / 0.3			
Low idling rpm		rpm	800 ± 50			
No load max. rpm		rpm	Mechanical governor : 1575 (52.5 Hz) / 1890(63Hz),			
			Electric governor : 1500 (50 Hz) / 1800(60Hz)			
Mean effective press. (Initial)		kg/cm ²	7.81 / 7.81	10.78 / 10.53	11.65 / 11.65	15.24 / 15.67
Mean piston speed		m/sec.	6.95 / 8.34			
Compression ratio			17.6	16.7		
Comp. Press. (at 200 rpm)		kg/cm ²	About 28 (Initial condition)			
Governor type of inj. pump			Electric Governor			
Fuel consumption		g/PS.h	160 / 160	153 / 155	153 / 153	150 / 151
		liter/h	20 / 24	27 / 32	29 / 34	37 / 46
Injection timing (B.T.D.C)		deg.	22° ± 1°	18° ± 1°	14° ± 1°	15° ± 1°
Inj. nozzle opening press.		kg/cm ²	224			
Starting system			Electric Starting by starter motor			
Starter motor capacity		V- kW	24 V – 4.5			
Alternator capacity		V- A	24 V – 80			
Battery		V- Ah	24V – 100			
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 by V- belt			
Sea water pump type			Rubber impeller type driven by gear			
Lub. Oil (Engine)	Pan capacity	lit	Max : 23, Min : 17 (Engine total : 25)			
	Pressure	kg/cm ²	Full : 3.5, Idle: 1.2			
Revolution of Crankshaft			Counter clockwise viewed from Flywheel side			
Engine size (L x W x H) (Except reduction gear)		mm	1,182 x 770 x 925	1,182 x 770 x 925	1,182 x 825 x 925	1,182 x 825 x 962
Engine dry weight (Except reduction gear)		kg	735	748	773	790

* Specifications are subject to change without prior notice.

Production tolerance : ± 3%

Spec.	Model	Units	Emergency	
			AD136TI	AD086TI
Engine type			4 cycle, in line, direct-injection, water cooled with turbo charger & inter-cooler	
Rating output (B.H.P)	60 Hz	PS(kW) / rpm	188(138)/1,800 (AD136TIS)	253(186) /1,800 (AD086TIS)
Displacement		cc	8,071	
Cyl. No. – bore(φ) x stroke		mm	6 - Φ111 x 139	
Valve clearance at cold		mm	0.3 / 0.3	
Low idling rpm		rpm	800 ± 50	
No load max. rpm		rpm	Mechanical governor : 1575 (52.5 Hz) / 1890(63Hz),	
			Electric governor : 1500 (50 Hz) / 1800(60Hz)	
Mean effective press. (Initial)		kg/cm ²	11.65 / 11.65	15.24 / 15.67
Mean piston speed		m/sec.	6.95 / 8.34	
Compression ratio			17.6	16.7
Comp. Press. (at 200 rpm)		kg/cm ²	About 28 (Initial condition)	
Governor type of inj. pump			Electric Governor	
Fuel consumption		g/PS.h	153	151
		liter/h	34	46
Injection timing (B.T.D.C)		deg.	14° ± 1°	15° ± 1°
Inj. nozzle opening press.		kg/cm ²	224	
Starting system			Electric Starting by starter motor	
Starter motor capacity		V- kW	24 V – 4.5	
Alternator capacity		V- A	24 V – 80	
Battery		V- Ah	24V – 100	
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 by V- belt	
Sea water pump type			Rubber impeller type driven by gear	
Lub. Oil (Engine)	Pan capacity	lit	Max : 23, Min : 17 (Engine total : 25)	
	Pressure	kg/cm ²	Full : 3.5, Idle: 1.2	
Revolution of Crankshaft			Counter clockwise viewed from Flywheel side	
Engine size (L x W x H) (Except reduction gear)		mm	1,182 x 825 x 925	1,182 x 825 x 962
Engine dry weight (Except reduction gear)		kg	773	790

* Specifications are subject to change without prior notice.

Printed in March 2020