

**GENERAL ENGINE DATA**

Type .....	4-Cycle, Water Cooled	
Aspiration .....	Turbo-Charged, Inter Cooler (Fresh water to Cooler)	
Cylinder Arrangement .....	Inline	
No. of Cylinders .....	6	
Bore mm(in.) .....	170	(6.69)
Stroke mm(in.) .....	180	(7.09)
Displacement liter(in <sup>3</sup> ) .....	24.51	(1496)
Compression Ratio .....	14.5:1	
Dry Weight - Engine only - kg(lb) .....	2705	(5965)
Wet Weight - Engine only - kg(lb) .....	2845	(6273)

**PERFORMANCE DATA**

Steady State Speed Stability Band at any Constant Load		
Electric Governor - % .....	±0.25 or better	
Maximum Overspeed Capacity - rpm .....	2100	
Moment of inertia of Rotating Components - kg·m <sup>2</sup> (lb·ft <sup>2</sup> ) .....	38.26	(908.1)
(Includes Std. Flywheel)		
Cyclic Speed Variation with Flywheel at 1800rpm .....	1/150	

**ENGINE MOUNTING**

Maximum Bending Moment at Rear Face of Flywheel Housing - kg·m(lb·ft) .....	200	(1447)
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**AIR INLET SYSTEM**

Maximum Intake Air Restriction (Includes piping)		
With Clean Filter Element - mm H <sub>2</sub> O (in.H <sub>2</sub> O) .....	400	(15.7)
With Dirty Filter Element - mm H <sub>2</sub> O (in.H <sub>2</sub> O) .....	635	(25.0)

**EXHAUST SYSTEM**

Maximum Allowable Back Pressure - mm H <sub>2</sub> O (in.H <sub>2</sub> O) .....	600	(23.6)
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**LUBRICATION SYSTEM**

Oil Pressure at Idle - kgf/cm <sup>2</sup> (psi) .....	2 ~ 3	(29 ~ 43)
at Rate Speed - kgf/cm <sup>2</sup> (psi) .....	5 ~ 6.5	(71 ~ 93)
Maximum Oil Temperature - °C(°F) .....	110	(230)
Oil Capacity of Standard Pan High - liter (U.S.gal) .....	80	(21.1)
Low - liter (U.S.gal) .....	50	(13.2)
Total System Capacity (Includes Oil Filter) - liter (U.S.gal) .....	100	(26.4)
Maximum Angle of Installation (Std. Pan) Front Down .....	11.5°	
(Engine Only) Front Up .....	10°	
Side to Side .....	22.5°	

**COOLING SYSTEM**

Coolant Capacity of Jacket (Engine only) - liter (U.S.gal) .....	43	(11.4)
Coolant Capacity of Air cooler (Engine only) - liter (U.S.gal) .....	7	(1.8)
Maximum External Friction Head at Engine Outlet - kgf/cm <sup>2</sup> (psi)		
(For Jacket and Air Cooler) .....	0.35	(5.0)
Maximum Static Head of Coolant above Crankshaft Center - m(ft) .....	10	(32.8)
Standard Thermostat (modulating)Range of Jacket - °C(°F) .....	71 ~ 85	(160 ~ 185)
Standard Thermostat (modulating)Range of Air Cooler - °C(°F) .....	35 ~ 50	(95 ~ 122)
Maximum Coolant Temperature at Engine Outlet of Jacket - °C(°F) .....	98	(208)
Minimum Coolant Expansion Space - % of System Capacity		
(For Jacket and Air Cooler) .....	10	(0.4)
Maximum Coolant Temperature at Intercooler Inlet, PTAW type - °C(°F) .....	45	(113)
Maximum Air Restriction on Discharge Side of Radiator and Fan - mm H <sub>2</sub> O(in.H <sub>2</sub> O) .....	10	(0.4)

Certified for US EPA-Tier 2/ Constant Speed

Standard Model [600kWe/60Hz]

mitsubishi

**S6R-Y2PTAW-1**

specification sheet

diesel engines

**FUEL SYSTEM**

Fuel Injector \_\_\_\_\_ Mitsubishi PS6 Type × 1  
Maximum Suction Head of Feed Pump - mm Hg (in. Hg) \_\_\_\_\_ 75 (3.0)  
Maximum Static Head of Return & Leak Pipe - mm Hg (in.Hg) \_\_\_\_\_ 150 (5.9)

**STARTING SYSTEM**

Battery Charging Alternator - V-Ah \_\_\_\_\_ 24-30  
Starting Motor Capacity - V -kW \_\_\_\_\_ 24-7.5  
Maximum Allowable Resistance of Cranking Circuit - m \_\_\_\_\_ 2.5  
Recommended Minimum Battery Capacity  
At 5°C (41°F) and above - Ah \_\_\_\_\_ 200  
Below 5°C(41°F) through - 5°C(23°F) \_\_\_\_\_ 500

The specifications are subject to change without notice.

APPLICATION : GENERATOR

Pub. No. T13-0630-E

Dec. '06 Printed in Japan



Certified for US EPA-Tier 2/ Constant Speed

Standard Model [600kWe/60Hz]

MITSUBISHI

**S6R-Y2PTAW-1**

SPECIFICATION SHEET

DIESEL ENGINES

**ENGINE RATING**

All data represent net performance with standard accessories such as air cleaner, inlet /exhaust manifolds, fuel oil system, L.O. pump, etc. under the condition of 100kPa(29.6inHg) barometric pressure, 77°F(25°C) ambient temperature and 30% relative humidity.

ITEM	UNIT	STAND-BY POWER	PRIME POWER		
		60Hz	60Hz		
Engine Speed	rpm	1800	1800		
No. of Cylinders		6			
Bore	mm (in.)	170 (6.69)			
Stroke	mm (in.)	180 (7.09)			
Displacement	liter (in. <sup>3</sup> )	24.51 (1496)			
Brake Horse power without Fan	HP (kW)	918 (685)	835 (623)		
Brake Mean Effective Pressure without Fan	kgf/cm <sup>2</sup> (psi)	19.0 (270)	17.3 (246)		
Mean Piston Speed	m/s (ft/min)	10.8 (2126)	10.8 (2126)		
Maximum Regenerative Power Absorption Capacity without Fan	HP (kW)	97 (72)	97 (72)		
Intake Air flow	m <sup>3</sup> /min (CFM)	68 (2401)	61 (2154)		
Exhaust Gas Flow	m <sup>3</sup> /min (CFM)	179 (6320)	161 (5685)		
Coolant Flow	liter/min (U.S. GPM)	800 (211)	800 (211)		
Coolant Flow to Intercooler (PTAW only)	liter/min (U.S. GPM)	400 (106)	400 (106)		
Cooling Air Flow (Std. Fan)	m <sup>3</sup> /min (CFM)	-	-		
Allowable Fan Loss Horse Power	HP (kW)	41.5 (31)	41.5 (31)		
Radiated Heat to Ambient	kcal/hr (BTU/min)	51019 (3374)	45835 (3031)		
Heat Rejection to Coolant	kcal/hr (BTU/min)	221083 (14622)	198618 (13136)		
Heat Rejection to Air Cooler (PTAW Version)	kcal/hr (BTU/min)	204076 (13497)	183340 (12126)		
Heat Rejection to Exhaust	kcal/hr (BTU/min)	635474 (42029)	564363 (37326)		
Noise Level (1 m height & distance) (excludes, Intake,Exhaust & Fan)	dB(A)	110	108		

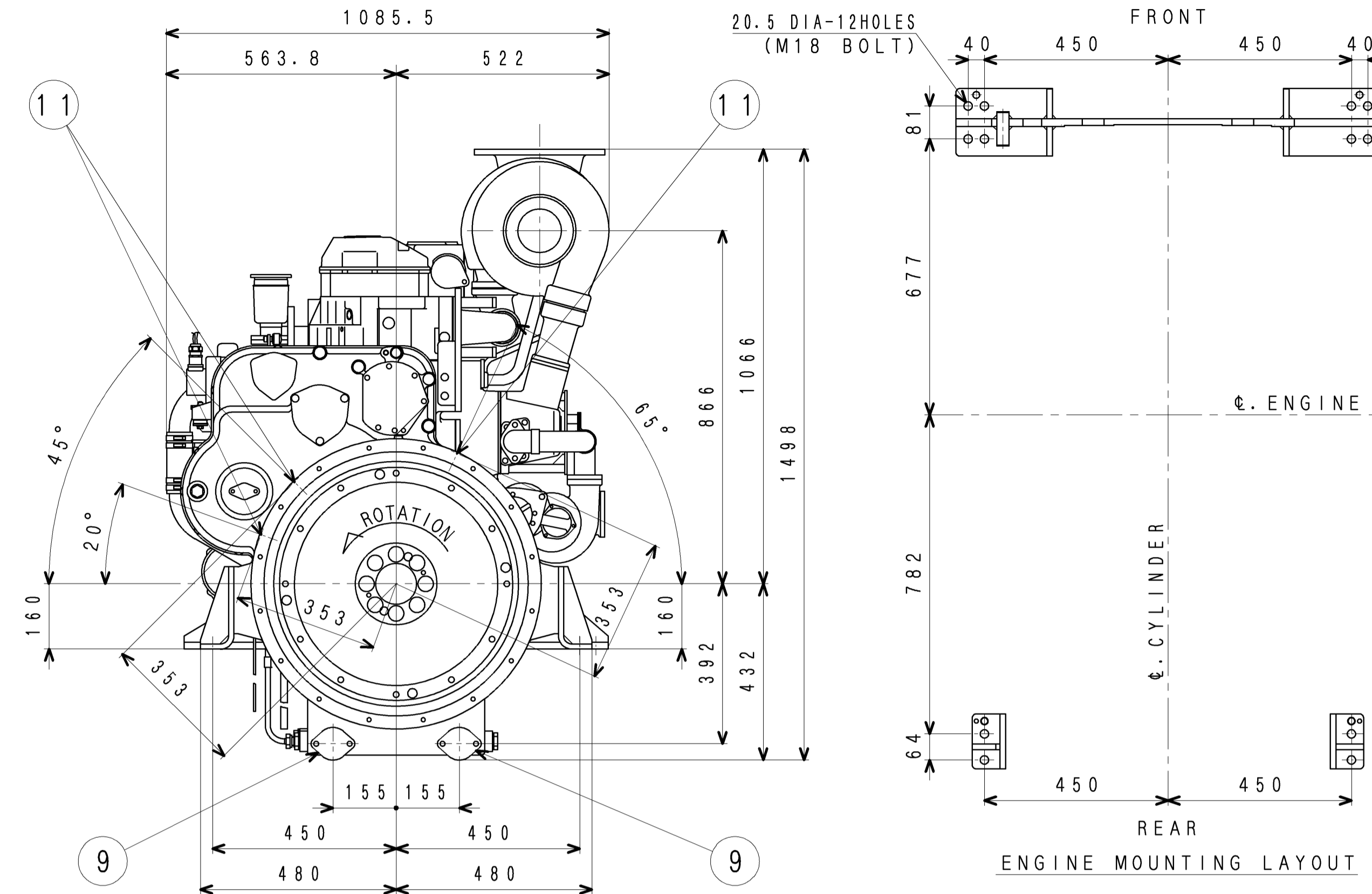
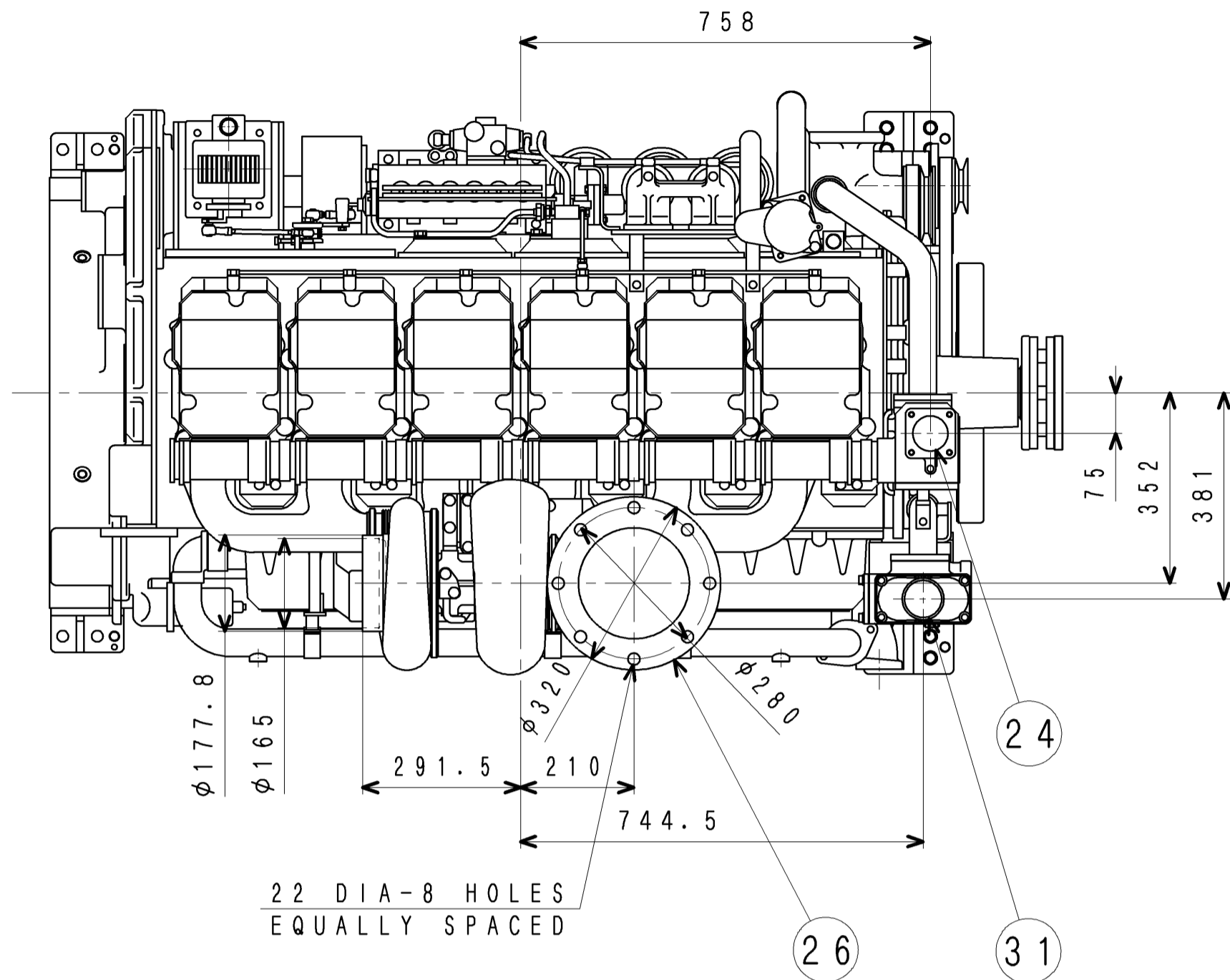
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NO.	PARTS NAME	SIZE	REFERENCE
1	FLYWHEEL & HOUSING		37596-21001
2	OIL PRESS. GAGE UNIT JOINT	Rc1/8	37596-01014
3	OIL PRESS. SWITCH JOINT	Rc1/8	
4	THERMOMETER UNIT JOINT (J/W)	Rc1/2	
5	THERMOSWITCH JOINT (J/W)	Rc1/2	
6	OIL PAN (A) JOINT	M20x1.5	
7	OIL PAN (B) JOINT	M16x1.5	
8	OIL PAN (C) JOINT	M36x1.5	
9	OIL PAN (D) JOINT		
10	AIR PRESS. GAGE JOINT	Rc1/4	
11	PICKUP JOINT	UNF5/8-18	37596-01014
12	GOVERNOR		
13	FUEL INLET PIPE JOINT	M24X1.5	37596-01014
14	FUEL RETURN PIPE JOINT	Rc3/8	37596-01014
15	FUEL FILTER		
16	FUEL INJECTION PUMP		
17	OIL FILLER		
18	OIL LEVEL GAGE		
19	OIL FULL-FLOW FILTER		
20	OIL BY-PASS FILTER		
21	OIL BY-PASS ALARM SWITCH		37596-01014
22	BREATHER		
23	WATER INLET PIPE JOINT (J/W)		37596-01014
24	WATER OUTLET PIPE JOINT (J/W)		37596-01014
25	WATER DRAIN COCK		
26	EXHAUST FLANGE	200A	
27	THERMOMETER, EX. JOINT	G3/4	37596-01014
28	TACHOMETER JOINT	M23x1.5	
29	STOP SOLENOID (RUN-ON)		
30	WATER INLET PIPE JOINT (A/C)		37596-01014
31	WATER OUTLET PIPE JOINT (A/C)		
32	WATER HEATER JOINT (A/C)	Rc1/2	
33	THERMOMETER UNIT JOINT (A/C)	Rc1/2	37596-01014

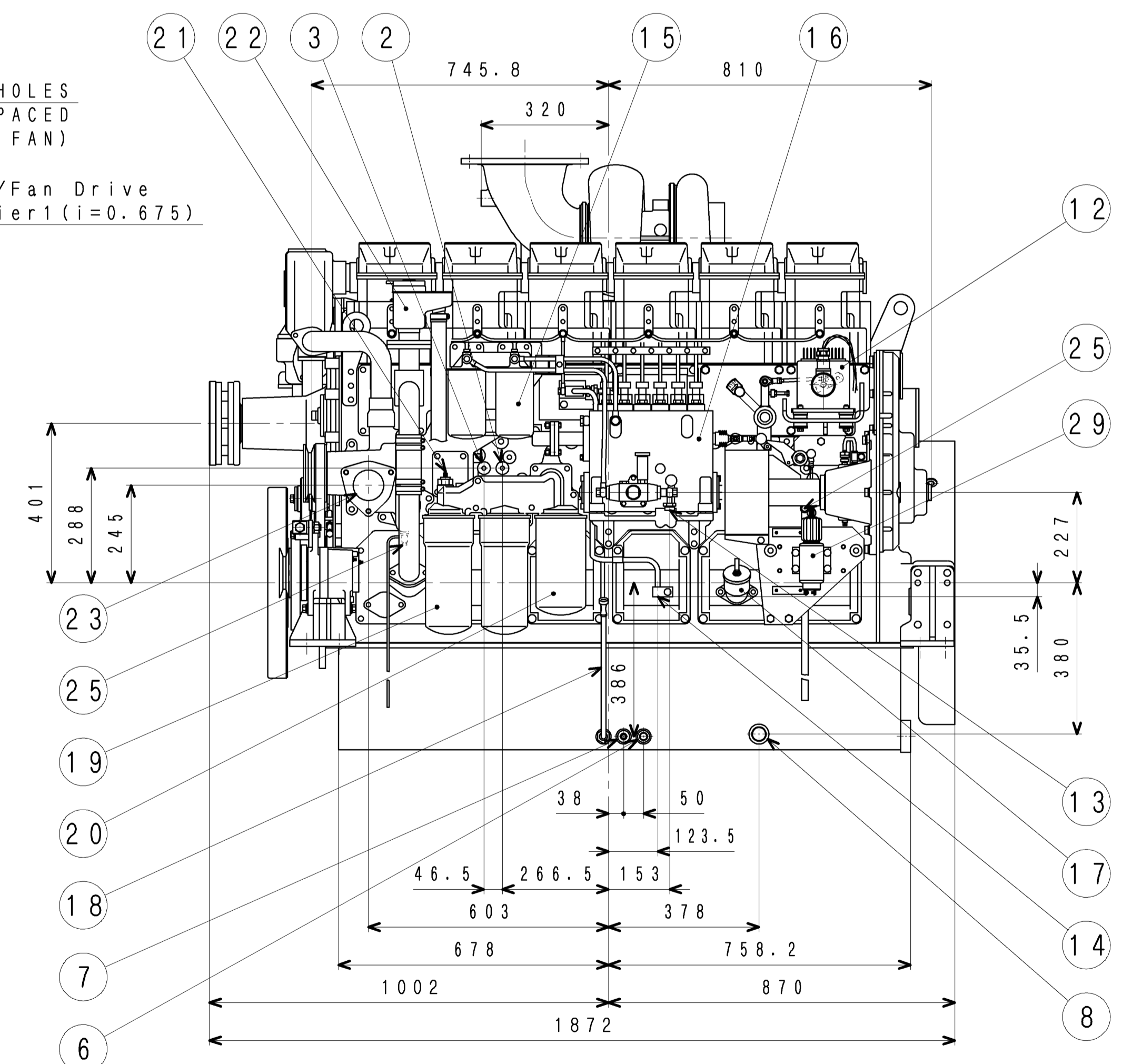
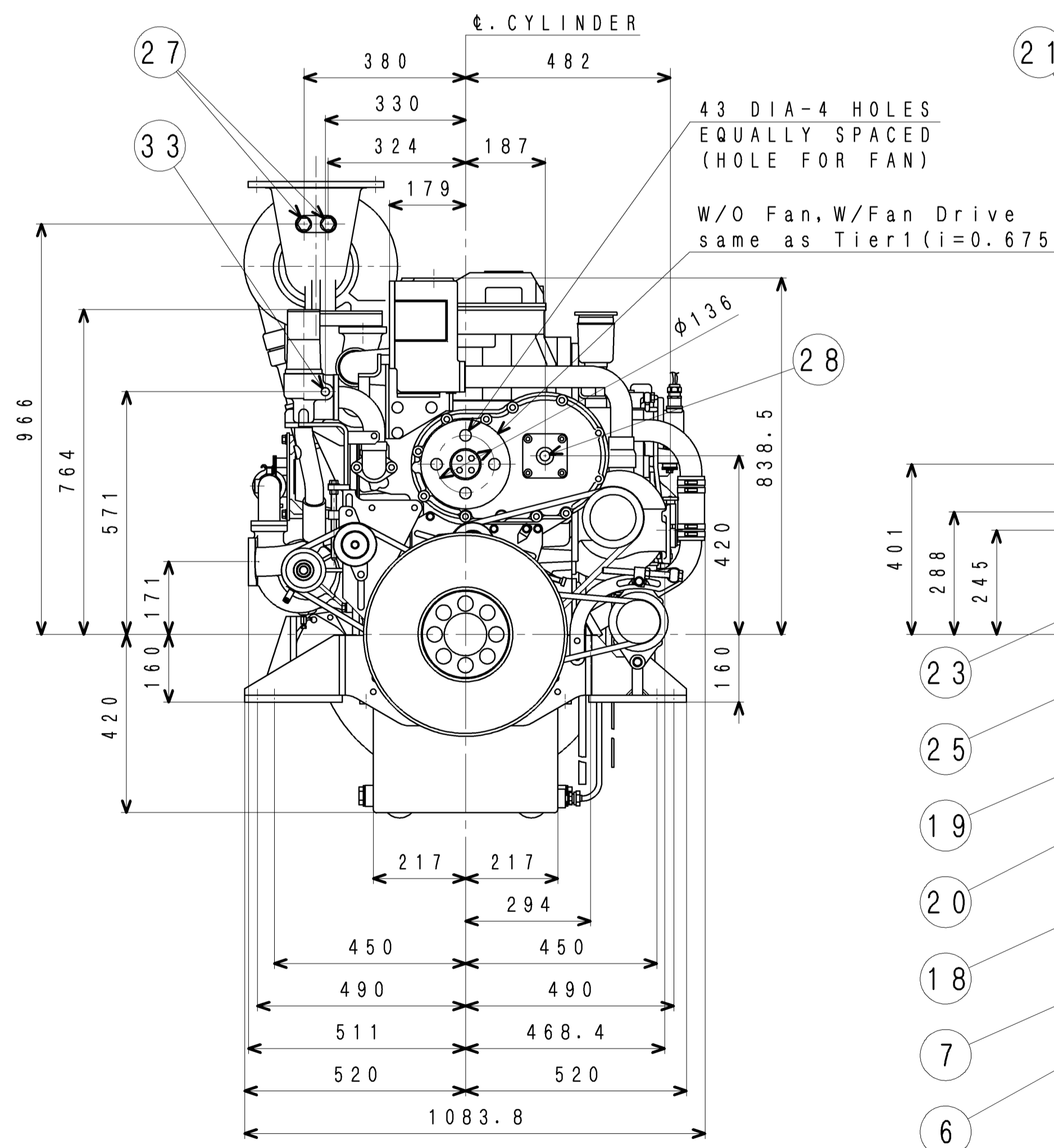
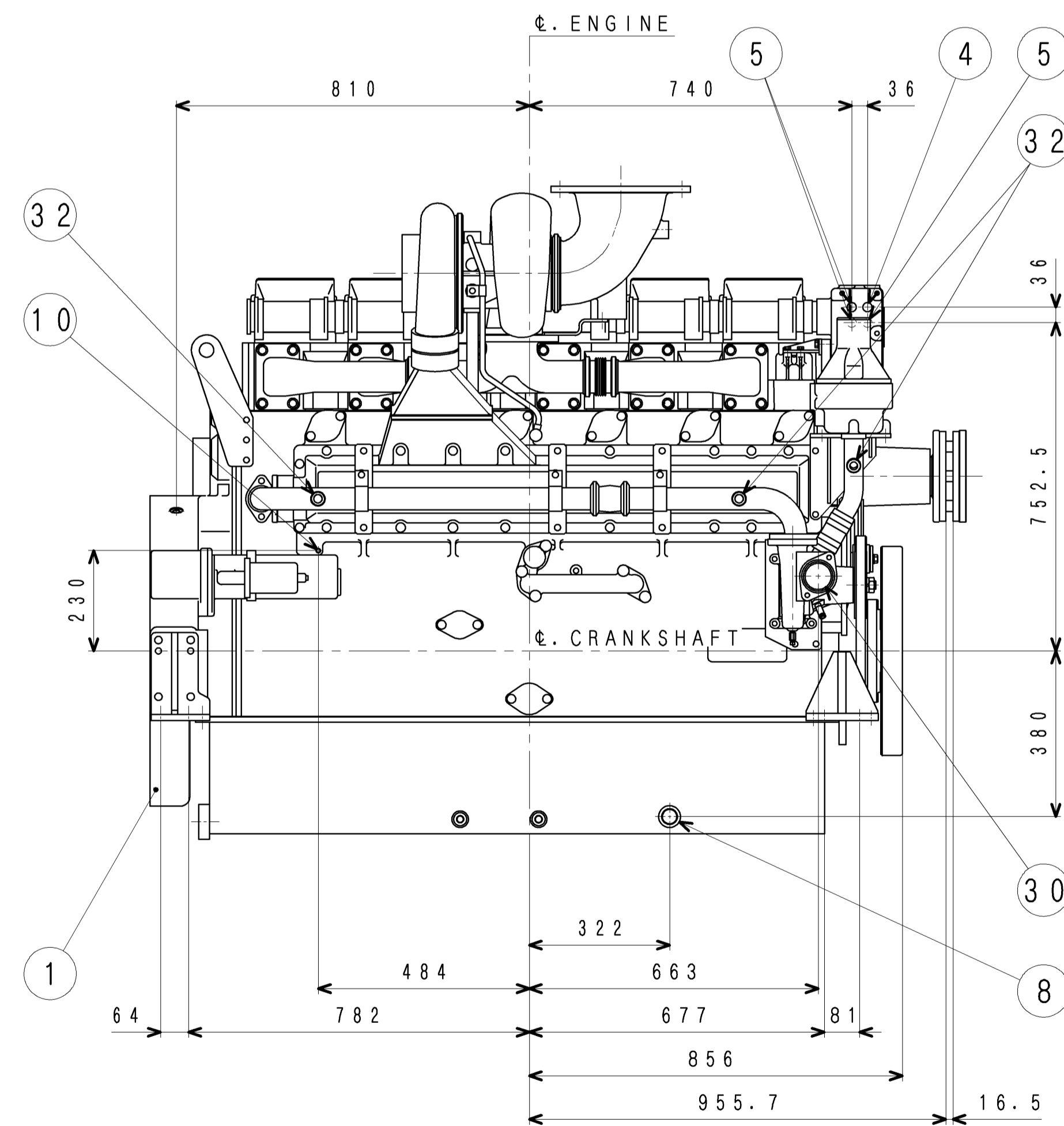


TABLE 1

ENGINE MODEL	OUTPUT (HP)	ENGINE SPEED (min <sup>-1</sup> )
S6R-Y2PTAW-1	918	1800

S6R-Y2PTAW DIESEL ENGINE		37596-00234	
三菱重工業株式会社 汎用機・特車事業本部			
MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS.			
図面番号	37596-00234		
DRWING NO.	37596-00234		
3 新図	1 1/4	2 換装部品	3 合金部品
4 組立品	5 切削品	6 その他(購入品)	

(3) TURBOCHARGER IS MHI TF15.  
 (2) GOVERNOR IS W/W PROACTII.  
 NOTES (1) THIS IS S6R-Y2PTAW ENGINE DRAWING FOR US EPA-TIER2 REGULATION.  
 TABLE 1 SHOWS ENGINE MODEL.



旧引  
汎特  
2007  
1.24

FULL-CAO