

8DWV-415

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Engine	Type of	Engine Gross Power	
Speed	Operation	kW	PS
1500 rpm	Prime Power	330	448
	Standby Power	363	493
1800 rpm	Prime Power	370	503
	Standby Power	405	550



- The engine performance is as per ISO 3046. Type of operation is based on ISO 8528.
- Prime power is available for an unlimited number of hours per year in a variable load application.
- The permissible average power output over 24 hours of operation shall not exceed 80% of the prime power rating.

Engine Specifications		Fuel Consumption Data					
						(Liter/ Hour)	
 Engine Type 	V-type, 4 strokes,	Speed	150	00 rpm	18	00 rpm	
	water-cooled, Turbocharged	Rating	Prime	Standby	Prime	Standby	
	air-to-air intercooled		330 kW	363 kW	370 kW	405 kW	
 Combustion type 	Direct injection	100% Load	82.7	90.9	94.5	103.5	
 Cylinder Type 	Wet liner	75% Load	59.0	64.9	67.5	73.9	
 No. of Cylinders 	8	50% Load	43.3	47.6	49.5	54.2	
○ Bore × stroke	128 ×142 mm	25% Load	27.6	30.3	31.5	34.5	
 Displacement 	14.618 liter						
 Compression ratio 	14.6 : 1						
 Firing order 	1-5-7-2-6-3-4-8	Fuel Syste	m				
 Injection timing 	12 °BTDC	 Injection pump 		Dire	irect Injection type		
 Dry weight 	Approx. 1050 kg	 Governor 		Elec	Electronic type		
 Dimension(LxWxH) 	1484 × 1389 × 1288 mm	○ Feed pump Me		echanical type			
 Rotation 	Anti-clockwise	 Injection no 	zzle	Mult	i-hole type		
	(Face to the flywheel)	 Injection pre 	essure	27 N	/IPa (270 kg/	cm²)	
 Fly wheel housing 	SAE NO. 1	○ Fuel filter Full Flow, Ca		Flow, Cartrid	ge type		
 Fly wheel 	SAE NO. 14	 Used fuel 		Dies	el fuel oil		
 Ring Gear Tooth 	160 EA						
Mechanism		Lubrication	System				
○ Type	Overhead valve	 Lub. Oil Gra 	ade	AFI ·	- CF-4 oil		
 Number of valve 	Intake 1, exhaust 1 per	 Lub. Oil Par 	n Capacity	Min	17, Max 21	liter	
	Cylinder	Max. allowa	ble Oil Temp	120	degree C.		
 Valve lashes at cold 	Intake. 0.3 mm	 Oil pressure 	;	Min.	300 kPa (3.0	0 kg/cm²)	
	Exhaust 0.4 mm			Max	. 650 kPa (6.	.5 kg/cm²)	
		Oil Consum	ption Rate	≤ 1.2	2 g/kWh		



Cooling System		Engineering	Data				
 Cooling method 	Fresh water forced type			1500 rpm		1800 rpr	n
 Water Pump 	Centrifugal, belt driven	Media Flow		Prime	S/B	Prime	S/B
 Water capacity 	20 liter (engine only)	Combustion Air	m3/min	26.1	28.7	29.9	32.7
 Max. Water Temp 	99 degree C.	Exhaust Gas	m3/min	67.9	74.7	77.6	85.0
 Thermostat 	Open 71°C / Full 83°C	Cooling Fan	m3/min				
 Water Pump flow 	650 liter/min						
 Cooling Fan 	Blade 7, Dia 915 mm	 Heat Rejectio 	n				
		to Exhaust	kW	287	316	333	364
		to Coolant	kW	125	138	144	158
		to Intercooler	kW	66	73	78	85
		to radiation	kW	30	32	33	36

Electric System	
 Charging generator 	28 V × 45 A (1260 W)
 Voltage regulator 	Build-in type
 Starting motor 	24 V × 7 kW
 Battery Voltage 	24 V
 Battery Capacity 	200 Ah

Conversion Table in. = mm × 0.0394 | lb/ft = N.m × 0.737 PS = kW × 1.3596 | U.S. gal = lit. × 0.264 psi = kg/cm2 × 14.2233 | kW = 0.2388 kcal/sec in³ = lit. × 61.02 | lb/PS.h = g/kW.h × 0.00162 HP= PS × 0.98635 | Cfm = m3/min × 35.336 lb = kg × 2.20462

Engine Layout & Dimension

