Engine Model 6DWD-358S

DWD Series for Diesel Generator application

POWER RATING

Engine Speed	Type of Operation	Engine Gross Power		
		kW	PS	
	Prime Power	-	-	
-	Standby Power	-	-	
1800 rpm	Prime Power	315	428	
	Standby Power	347	472	

- 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.

Fuel Consui				
i dei Golisai	mption Dat	а		
				(Liter/ Hour)
Speed	150	00 rpm	18	00 rpm
rged Rating	Prime	Standby	Prime	Standby
	-	-	315 kW	347 kW
100% Load	-	-	80.0	88.2
75% Load	-		57.6	
50% Load	-		42.0	
25% Load	-		28.5	
Fuel Syste	m			
 Injection pu 	mp	Dire	ct Injection ty	/ре
 Governor 		Electronic type		
 Feed pump 		Mec	Mechanical type	
 Injection no 	zzle	Mult	i-hole type	
 Opening pressure 	essure	250	kg/cm2 (355	6 psi)
 Fuel filter 		Full	Flow, Cartrid	ge type
 Used fuel 		Dies	el fuel oil	
Lubrication	System			
	•	CF-4	4 oil	
		28 li	ter	
		p 115	degree C.	
 Low pressu 	re warning		•	
	_	n 160	kPa	
•			39 g/kWh	
n	Fuel Syste	Rating Prime	Rating Prime Standby	Rating Prime Standby Prime 315 kW 100% Load 80.0 75% Load - 57.6 50% Load - 42.0 25% Load - 28.5 Fuel System Injection pump Governor Feed pump Injection nozzle Opening pressure Opening pressure Fuel filter Fuel filter Used fuel Lubrication System Lub. Oil Grade Lub. Oil Grade CF-4 oil Lub. Oil Pan Capacity Max. allowable Oil Temp Low pressure Warning Low pressure Warning Low pressure Shutdown CF-4 oil CF-4 oil

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Cooling System		Engineering	Data				
 Cooling method 	Fresh water forced type			1500 rpm		1800 rpn	n
 Water Pump 	Centrifugal, Belt driven	Media Flow		Prime	S/B	Prime	S/B
 Water capacity 	28 liter (engine only)	Combustion Air	m3/min	-	-	24.1	26.5
 Max. Water Temp 	99 degree C.	Exhaust Gas	m3/min	-	-	42.8	47.1
 Thermostat 	Open 71°C / Full 82°C	Cooling Fan	m3/min	-	-		
 Water in/outlet Dia 	45 mm						
		 Heat Rejection 					
		to Exhaust	kW				
		to Coolant	kW				
		to Intercooler	kW				
Intake & Exhaust Sys	stem	to radiation	kW	-			

Ò	Max air restriction	Clea

an 2 kPa / Dirty 5 kPa

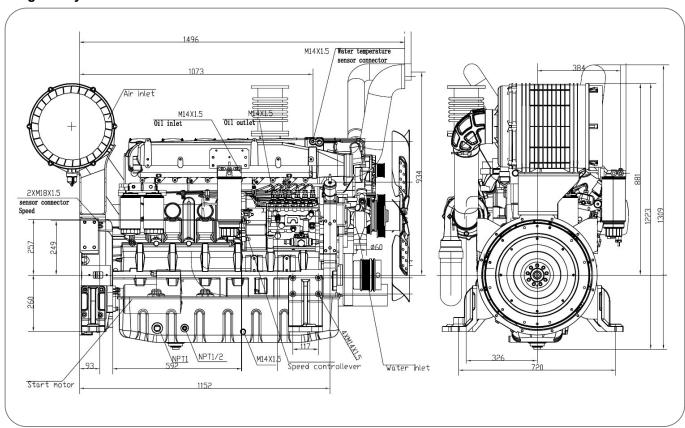
○ Exhaust back pressure Max 6 kPa

Electric System		
 Charging generator 	28 V × 54 A (1500 W)	
 Voltage regulator 	Build-in type IC regulator	
 Starting motor 	24 V ×.7.5 kW	
 Battery Voltage 	24 V	
 Battery Capacity 	2 x 150 AH	

Conversion Table

in. = $mm \times 0.0394$ $lb/ft = N.m \times 0.737$ U.S. gal = lit. × 0.264 PS = kW × 1.3596 $psi = kg/cm2 \times 14.2233$ kW = 0.2388 kcal/sec $in^3 = lit. \times 61.02$ $lb/PS.h = g/kW.h \times 0.00162$ HP= PS x 0.98635 $Cfm = m3/min \times 35.336$ $lb = kg \times 2.20462$

Engine Layout & Dimension



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