shindaiwa®

SPECIFICATIONS

DieselEngineGenerator DG25MK-400

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CHAPTER 1: GENERAL

1. Standard

Design and production are in conformity with:

- (1) Japan Industrial Standards (JIS)
- (2) Low Noise Type Construction Machinery Standard
- (3) Voluntary Emission Regulations for non-road engines in Japan by MLIT. (Tier 3)

*MLIT: Ministry of Land, Infrastructure, Transport and Tourism.

2. Design Condition

(1) Installation Place: Outside Only.

(2) Ambient Temperature: 5 to 104° F (-15 to 40°C)

(3) Humidity: Less than 80%

(4) Altitude: Less than 984 ft. (300 m) above sea level

3. Test and Check

Test shall be conducted with a complete workable unit of the diesel engine unit.

Check Items:

- (1) Insulation and Dielectric Test
- (2) Starting
- (3) Protection Device Working Test
- (4) Voltage Deviation and Speed Variation: 0-4/4 Load
- (5) Load Test: Welding and Generating 4/4 Load

4. Painting

Painting and color specifications are as per manufacturer's standard.

5. Structure

(1) Bed and Vibration Proof Device

Alternator is directly coupled with engine and both are installed on the bed through the vibration proof device.

(2) Low Noise

Low noise structure is put in the inside of the bonnet.

Sound Level: 58 dB(A) @7m distance under no load.

(3) Fuel Tank

A steel fuel tank is equipped and incorporated with the electrical level gauge.

CHAPTER 2: SPECIFICATIONS

Model		Unit	DG25N	DG25MK-400	
Alternator	Concreting Type	-	Rotating Feld, Brushless 3-Phase		
	Generating Type		Synchronous Alternator		
	Rated Frequency	Hz	50	60	
	Rated Output	kVA	20	25	
		kW	16	20	
	Rated Voltage	V	400 [200] *1	440 [220] *1	
ter	Rated Current	Α	28.9 [57.7] *1	32.8 [65.6] *1	
Ā	Winding	-	3-phase, 4-wire		
	Power factor	%	80		
	Insulation class	-	F		
	Excitation	-	Self-Excitation(Brushless)		
	No. of poles	-	4		
	Types	-	Vertical Water-Cooled	Vertical Water-Cooled 4-cycle Diesel Engine	
	Model (Manufacturer)	-	V2403 (H	(UBOTA)	
	No. of Cylinders (bore x stroke)	mm	4 (87 X	4 (87 X 102.4)	
	Continuous rated output	kW	19.1	23.7	
		PS	26.0	32.2	
	Rated speed	min ⁻¹	1500	1800	
	Displacement	L	2.434		
	Combustion system	-	Direct Fuel Injection		
gine	Cooling method	-	Radiator		
l g	Lubricating method	-	Forced lubrication		
П	Starting method	-	Electric start		
	Fuel	-	Diesel Fuel (AS	Diesel Fuel (ASTM No. 2-D)	
	Lubricant oil	-	CD class		
	Fuel tank capacity	L	65		
	Lubricant volume (Full)	L	9.7		
	Cooling water volume	L	9.7		
	Starting motor capacity	V-kW	12 - 1.4		
	Charging dynamo capacity	V-A	12 - 30		
	Battery	-	80D26R		
Unit	Length	mm	1500		
	Width	mm	700		
	Height	mm	1000		
	Dry Weight	kg	625		
	Installed Weight	kg	705		

^{*}Specifications are subject to change without notice.

CHAPTER 3: EQUIPMENT AND FEATURE

1. Equipment

2. Feature

(1) Feature

• Sound Level 58B(A) at 7m distance under no load.

• Generating Performance 3-Phase

2 Way Drive Control
Environmental
Fuel Tank Capacity
Dry Weight
High/Low Speed
Quiet Sound System
17 gal. (65 Liters)
1378 lbs. (625 kg)

• Dimensions (LxWxH) 59.05" x 27.6" x 39.37" (1500 x 700 x 1000 mm)

(2) Protection Device

Item	Set Value	Engine Shut-Down
Water Temp.	239° F/115°C	~
Low Battery Charge	n/a	~
Low Oil Pressure	7 psi/49kPa	~
Air Filter	when clogged	No
Over Speed	2070 min ⁻¹	V
Over Load	Approx. 80% of Rated Output	No

(3) Fuel Economy

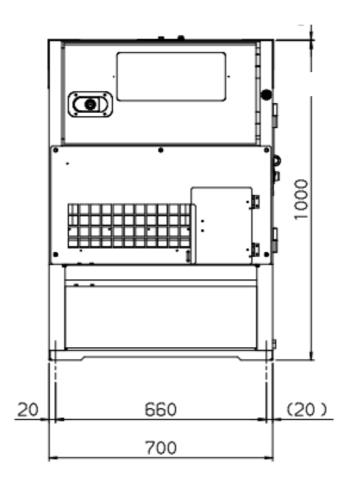
Criteria	Fuel Consumption
Full load	2.35 gal./hr (8.9L/hr.)
3/4 load	1.35gal./hr (5.1L/hr.)
1/2 load	1.03gal./hr (3.9L/hr.)
1/4 load	.58 gal./hr. (2.2L/hr.)
No Load	N/A

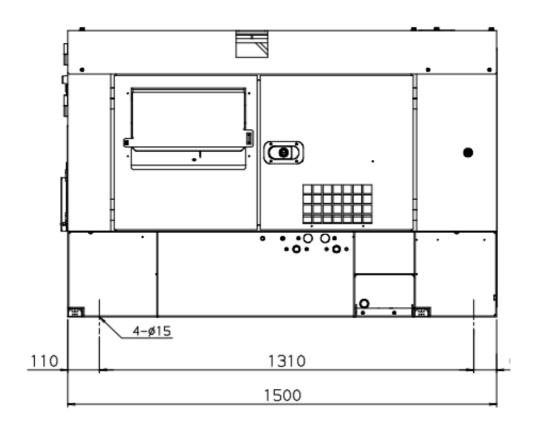
^{*}Above is for reference only.

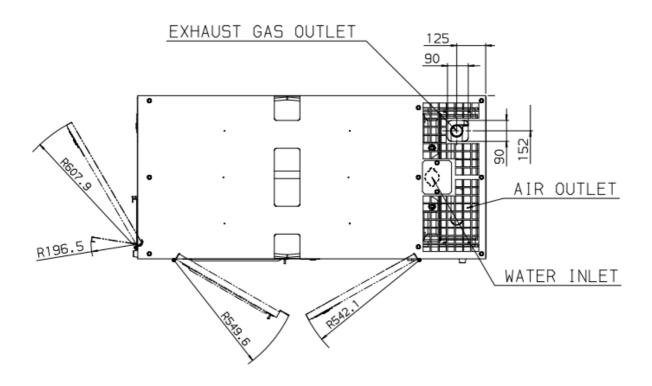
(4) Accessory

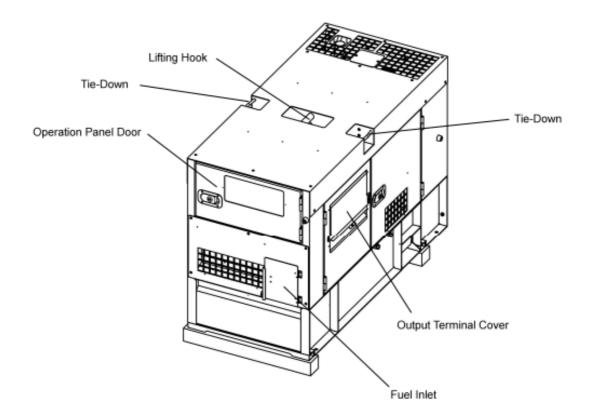
Operator's Manual 1 copy Starter Key 2 pcs. Door Key 2 pcs. Grounding Rod 1 set

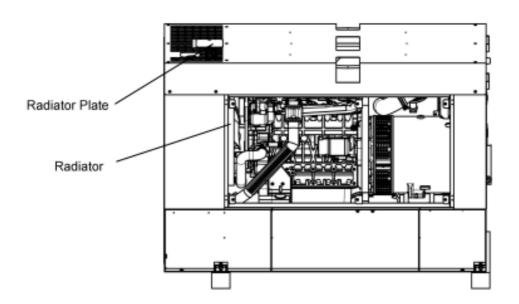
CHAPTER 4: APPEARANCE



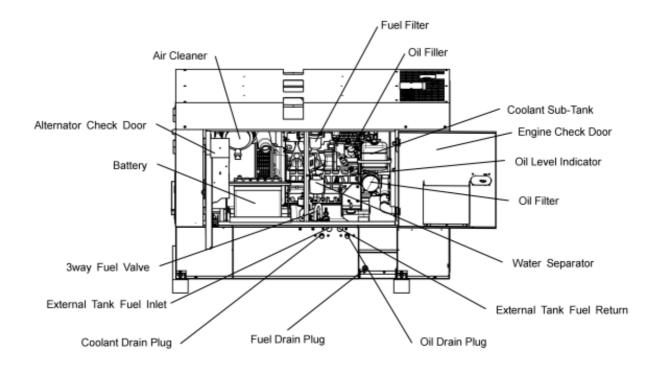








* Shown with side-plate removed.



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