shindaiwa®

SPECIFICATIONS

Diesel Engine Generator & Welder DGW310MC/ASIANR

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CHAPTER 1: GENERAL

1. Standards

Design and production are in conformity with:

- (1) Japan Industrial Standards: JIS C 9300-1
- (2) Low Noise Type Construction Machinery Standard
- (3) Voluntary Emission Regulations for non-road engines in Japan by LEMA. (Tier 3)

*LEMA stands of Japan Land Engine Manufacturers Association.

2. Design Conditions

(1) Installation Place: Outside Only.

(2) Ambient Temperature: -15 to +40°C

(3) Humidity: Less than 80%

(4) Altitude: Less than 300 meters above sea level

3. Test and Check

Test shall be done 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: 58dB(A) @7m distance under eco mode.

(3) Fuel Tank

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

CHAPTER 2: SPECIFICATIONS

Model				DGW310MC/ASIANR		
Gener	ating Method			Rotating Field		
	Rated Current (A)		260 / 280			
٦c	Rated Voltage (V)		30.4	30.4 / 31.2		
ratc	Duty Cycle (%)		1	100		
ene	Rated Speed (r		(min ⁻¹	3000 / 3600		
CG	No Load Voltage		(V	MAX 85		
Welding DC Generator	FCC	Current Adj.	Adj. Range (A) 30 – 160			
ldin	ECO	Welding Rod	(mm	$\phi 2.0 - \phi 4.0$		
We	NORMAL	Current Adj.	Range (A	35 – 280 / 45 – 310		
	NORWAL	Welding Rod	(mm	$\phi 2.6 - \phi 6.0$		
	Rated Frequency (Hz)		50 / 60			
	Rated Sp	eed	(min ⁻¹	3000 / 3600		
ator	Phase			1-Phase	3-Phase	
AC Generator	Rated Voltage (V)		230 / 250	200 / 220		
Gel	Rated Current (A)		15A x 2	14.3/13.0		
AC	Power Factor		1.0	0.8		
	Rated Output (kVA)		6.9/7.5	9.9		
	Rating		Continuous			
	Model		Kubota D722			
	Туре		Water-Cooled 4-Cycle Diesel Engine			
	Displacement (cu.in./liters)		43.87/0.719			
e.	Rated Output (kW/mir		(kW/min ⁻¹	11.7 / 3000 14.0 / 3600		
Engine	Fuel		ASTM No.2-D Diesel Fuel or Equivalent			
Ш	Lubricant Oil		API Class CD or better			
	Lubrication Oil Volume (gal./liters)		1.0/3.8 (Effective 0.369/1.4)			
	Cooling Water Volume (gal./liters)		0.79/3.0 (Sub Tank Capacity 0.158/0.6 included)			
	Starting Method		Starter Motor			
Battery				46B24L (Japanese	46B24L (Japanese Industrial Standard)	
Fuel Tank Capacity (gal./liters)			(gal./liters)	9.77/37		
ا دا	Length (in./mm)		55.5/1410			
Dimen- sion	Width (in./mm)		22.2/566			
	Height		(in./mm	29.9/760		
Dry Weight (lbs./kg)			(lbs./kg)	734	1/333	

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

CHAPTER 3: EQUIPMENT AND FEATURE

1. Equipment

(1) Generator AC Output Receptacle 1-Phase Receptacle (230/250V)	1 pc.
Engine Speed Voltage Adjusting Volume Frequency Selector Switch (50/60Hz)	1 pc. 1 pc.
(2) Welder DC Current Adjustment Dial Output Selector Dial (eco/std) Welding Output Terminal	1 pc.
(3) Safety Device Welding Terminal Cover Breaker • With Leakage Shut off Device: 30mA/0.1 sec. Protective Monitor with auto engine shutdown feature Fuse (10A/50A)	1 pc.
(4) Equipment eco Welding Feature Warning Monitor • Water Temp. • Battery Charge • Oil Pressure Digital Display • AC Voltage • Operating Hrs (accumulated)	1 set
Engine Speed Fuel Lamp Frequency Selector Switch Output Selector Switch Current Adj. Dial 3-Phase Output Terminal AC Voltage Adj. DIal Grounding Rod. Voltage Regulator Ultra-Quiet Air Flow System AC Current Remote Control (Optional)	1 pc1 pc1 pc1 pc1 pc1 pc1 pc.

2. Feature

(1) Feature

• Sound Level 58dB(A) at 7m distance under eco mode.

Generating Performance
 2 Way Drive Control
 1-Phase & 3-phase
 High/Low Speed

• Environmental Ultra-Quiet Sound System

Fuel Tank Capacity 37 Liters (9.77 gal.)Dry Weight 333 kg (734 lbs.)

• Dimensions (LxWxH) 1410 x 566 X 760 mm (55.5 x 22.2 x 29.9 in.)

(2) Protection Device

Item	Engine Shut-Down
Water Temp.	0
Low Battery Charge	\circ
Low Oil Pressure	0

(3) Fuel Economy

	Criteria	Fuel Consumption	
		(Duty Cycle: 100%)	
Welding			
	Idle Control at HIGH	1.7L/hr. (0.44 gal./hr)	
No Load	Idle Control at AUTO	0.7L/hr. (0.18 gal./hr)	
	Output Selector at eco		
	Rated Current (60Hz)	4.2L/hr. (1.1 gal./hr)	
Loaded	Rated Current (50Hz)	3.5L/hr (0.9 gal./hr)	
	Output Selector at eco	2.1L/hr. (0.55 gal./hr)	
Generati	ng		
Loaded	Rated (60Hz)	3.5L/hr. (0.92 gal./hr)	
Loaded	Rated (50Hz)	3.2L/hr. (0.84 gal./hr)	

^{*}Above value is for reference only as it may vary depending on the conditions.

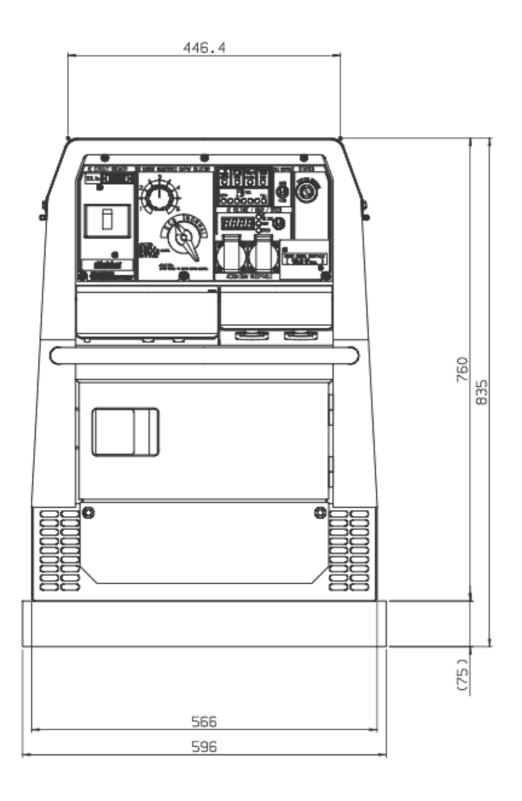
(4) Accessories

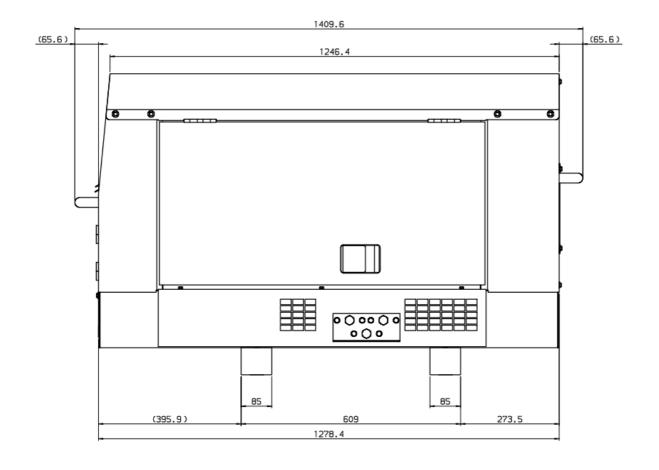
Owner's & Operator's Manual 1 copy
Engine Instruction Manual 1 copy
Engine Warranty Statement 1 copy
Starter Koy

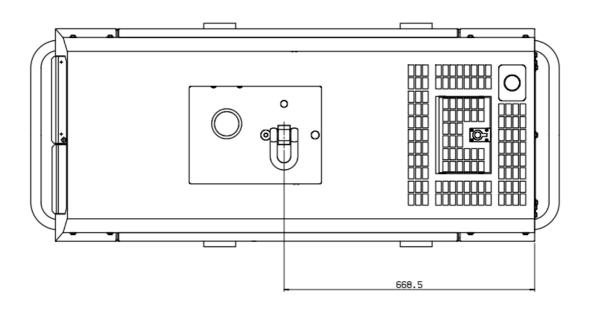
Starter Key 1 set (2 pcs.)

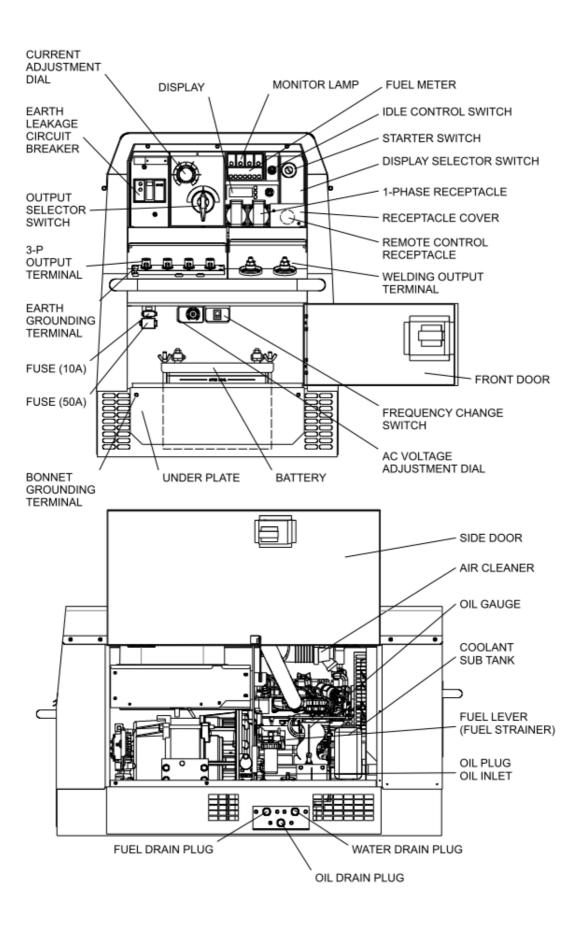
Grounding Rod 1 pc.
Tool Set 1 set

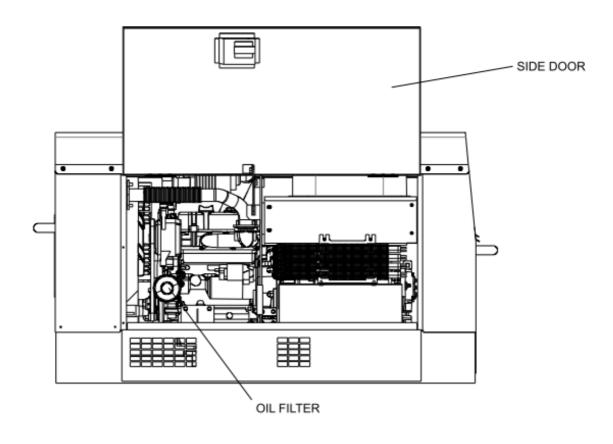
CHAPTER 4: APPEARANCE

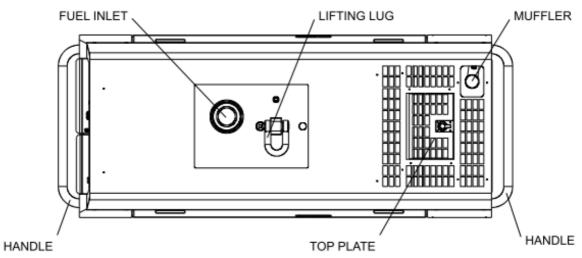












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