shindaiwa®

SPECIFICATIONS

DGW300MS/ANZ

CONTENTS

CHAPTER 1: GENERAL

1. Application

(1) Arc Welding
(2) Gouging
(3) Power Source

2. Standards

Design and production are in conformity with:
(1) Japan Industrial Standards: JIS C 9300-1
(2) Low Noise Type Construction Machinery Standard by Ministry of Construction
(3) Construction Machinery Gas Emission Regulation Standard by Ministry of Construction

3. Design Condition

(1) Installation Place: Outside
(2) Ambient Temperature: -15 to +40℃
(3) Humidity: Less than 80%
(4) Altitude: Less than 300 meters above sea level

4. Test and Check

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

Check Items
a) Insulation and Dielectric Test
b) Starting
c) Protection Device Working Test
d) Voltage Deviation and Speed Variation: 0-4/4 Load
e) Load Test: Welding and Generating 4/4 Load

5. Painting

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

6. Structure

(1) 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: 57dB(A) @7m distance

(3) Fuel Tank
A steel fuel tank is equipped and incorporated with the electrical level gauge.

CHAPTER 2: SPECIFICATIONS

Model			DGW300MS/ANZ
Generating Method			Rotating Field
Welding Generator	Rated Current (A)		260
	Duty Cycle (%)		80
	Current Adj. Range (A)	ECO	30 - 300
		AUTO/HIGH	35 - 300
	Welding Rod (mm)		2.0 - 6.0
	Rated Speed (min^{-1})		3000
	No Load Voltage (V)		Max. 95
AC Generator	Rated Frequency (Hz)		50
	Rated Speed (min^{-1})		3000
	Phase		Single Phase
	Rated Voltage (V)		240
	Rated Current (A)		30
	Power Factor		1.0
	Rated Output (kVA)		7.2
	Rating		Continuous
Engine	Model		Kubota D722
	Type		Water-Cooled 4-Cycle Diesel Engine
	Displacement (L)		0.719
	Rated Output (kW/min^{-1})		11.7 / 3000 (Gross Intermittent)
	Fuel		ASTM No.2 Diesel Fuel or Equivalent
	Lubricant Oil		API Class CD or Higher
	Lubrication Oil Volume (L)		3.8 (Effective 1.4)
	Cooling Water Volume (L)		3.0 (Sub Tank capacity 0.6 L included)
	Starting Method		Starter Motor
Battery			46B24L(Japan Industrial Standard)
Fuel Tank Capacity (L)			38
Dimension	Length (mm)		1395
	Width (mm)		566
	Height (mm)		760
Dry Weight (kg)			365

*Specifications subject to change without notice.

CHAPTER 3: EQUIPMENT AND FEATURE

1. Equipment

(1) Generator

Digital Display ..... 1 pc
- Voltage meter
- Ampere meter
- Frequency meter

Breaker ..... 2 pcs
With Leakage Shut off Device: 30mA 0.1 second

1-Phase 250V Receptacle ..... 2 sets

Voltage Adjustment Volume ..... 1 pc

Earth Leakage Grounding Terminal ..... 1 pc

(2) Welder

Current Adjusting Dial ..... 1 pc

Output Selector Switch ..... 1 pc

Welding Current Output Terminal ..... 1 set

(3) Others

Idle Control Switch ..... 1 pc

Starter Switch ..... 1 pc

Bonnet Grounding Terminal ..... 1 pc

Monitor Lamp ..... 1 set
- Water Temperature
- Battery Charge
- Oil Pressure
- Pre Heat
- Overheat

2. Feature

(1) Feature

• 3 Way Switch	Welding, Generating or Simultaneous Model Selection
• Welding Performance	Pre dial Current and Voltage Control System
• Battery Isolator	Standard
• Sound Level	Super Silenced, 57dB(A) at Eco mode
• Generating Performance	2 x 15A Single Phase Outlets-Earth Leakage Protected
• VRD*	Standard
• Environmental	Interim Tier 4 Engine, Complies with EPA 2
• Wire Feeder	Wire Feeder Capability, 115V or 42V Capacity
• Emergency Stop Switch	Standard
• Large Tank	38 Liters, Large Fuel Tank Standard
• Compact and Light Wt.	365kg**, 1395mm x 566mm x 760mm

*VRD: Voltage Reduction Device
**Dry Weight

(2) Protection Device

Item	Standard	Monitor Lamp	Engine Shut-Down
Low Oil Pressure	98.1kPa	○	✔
Water Temp	110℃	○	✔
Insufficient Charging	-	○	✔
Overheat			-
Over Current	15A	○	-
Current Leakage	30mA 0.1sec.	○	-

(3) Accessories

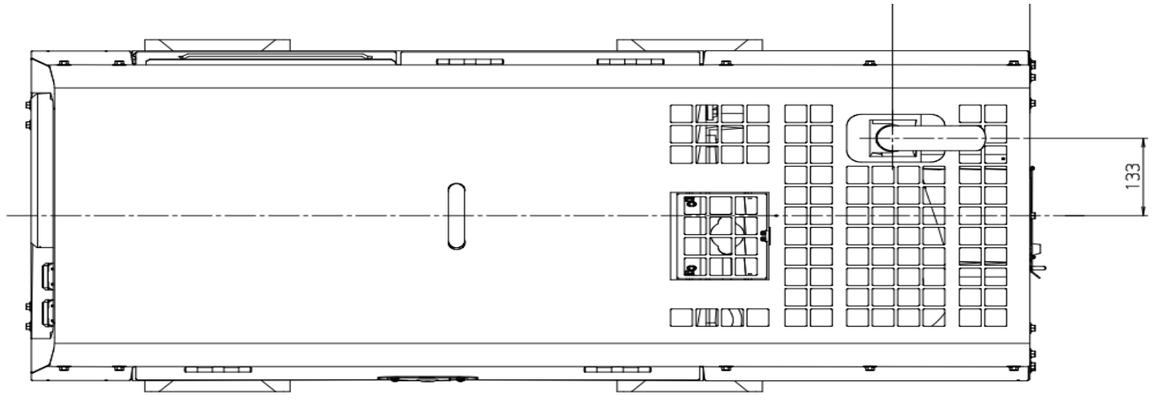
Grounding Rod	1 pc
Owner's & Operator's Manual	1 copy
Emission Control Systems Limited Warranty (by engine manufacturer)	1 copy

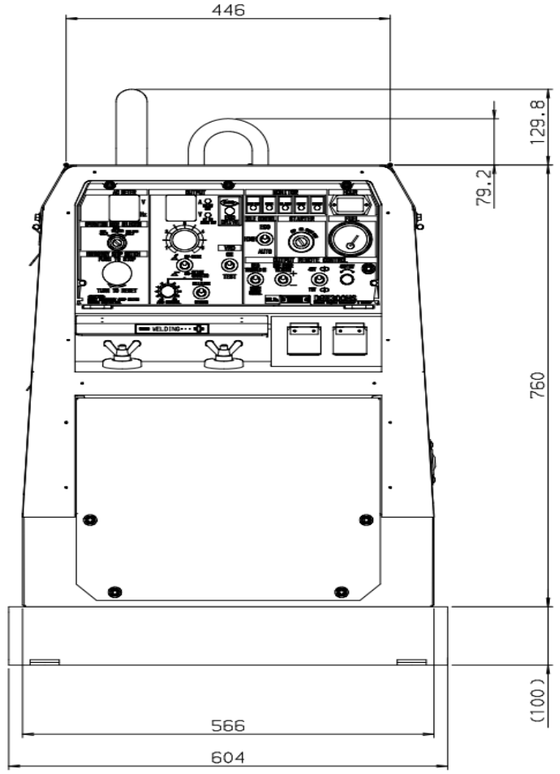
(4) Fuel Economy

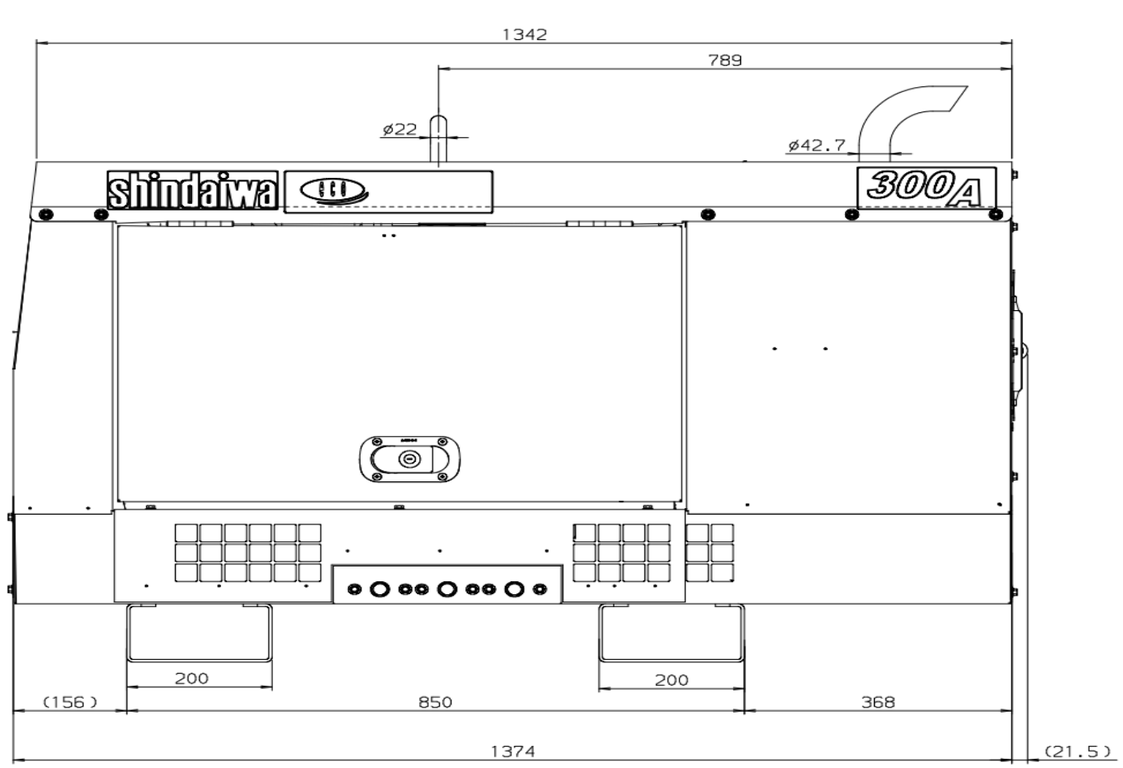
	Criteria	Fuel Consumption
Welding		<Duty Cycle: 100%>
Loaded	Rated Current at 260A (50Hz)	3.5L/hr. (0.92 gal./hr)
	Rated Current at 160A (50Hz)	2.4L/hr (0.63 gal./hr)
	Eco at 160A	2.1L/hr. (0.55 gal./hr)
Generating		<Duty Cycle: 100%>
Loaded	Rated	3.1L/hr. (0.82 gal./hr)
Reference Only		
No Load	Idle Control at High (50Hz)	1.3L/hr. (0.34 gal./hr)
	Low Idle	0.8L/hr. (0.21 gal./hr)

*Above may change depending upon operating conditions.

CHAPTER 4: APPEARANCE







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