

shindaiwa®

SPECIFICATIONS

DGW500DM-200

CONTENTS

CHAPTER 1: GENERAL.....1

- 1. Standards**
- 2. Design Conditions**
- 3. Test and Check**
- 4. Painting**
- 5. Structure**

CHAPTER 2: SPECIFICATIONS.....2

CHAPTER 3: EQUIPMENT AND FEATURE.....3

- 1. Equipment**
 - (1) Generator**
 - (2) Welder**
 - (3) Others**
- 2. Feature**
 - (1) Feature**
 - (2) Protection Device.....4**
 - (3) Accessories**

CHAPTER 4: APPEARANCE.....5

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) EPA Tier 2 Emission level

2. Design Conditions

- (1) Installation Place: Outside
- (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.

(1) 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

4. Painting

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

5. 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 under no load.

(3) Fuel Tank

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

CHAPTER 2: SPECIFICATIONS

Model		DGW500DM-200		
Generating Method		Rotating Field		
Welding DC Generator	Operation	Single	Dual	
	CC	Rated Current (A)	480	230
		Rated Voltage (V)	39.2	29.2
		Duty Cycle (%)	60	80
		Current Adj. Range (A)	60 – 500	30 – 280
		Welding Rod (mm)	φ2.6 – φ8.0	φ2.0 – φ6.0
		Gouging Rod (mm)	φ3.2 – φ9.5	φ3.2 – φ5.0
	CV	Rated Current (A)	480	230
		Rated Voltage (V)	39.0	22.5
		Duty Cycle (%)	60	80
Voltage Adj. Range (V)		14 – 40	14 – 29	
Welding Wire (mm)		φ0.6 – φ2.4	φ0.6 – φ2.0	
Rated Speed (min ⁻¹)	3000 / 3600			
No Load Voltage (V)	MAX 85			
AC Generator	Rated Frequency (Hz)	50 / 60		
	Rated Speed (min ⁻¹)	3000 / 3600		
	Phase	1-Phase	3-Phase	
	Rated Voltage (V)	115 / 127	200 / 220	
	Rated Current (A)	20A×2	28.6 / 26.0	
	Power Factor	1.0	0.8	
	Rated Output (kVA)	4.6 / 5.1	9.9	
	Rating	Continuous		
Engine	Model	Kubota V1505		
	Type	Vertical, Water-Cooled 4-Cycle Diesel Engine		
	Displacement (L)	1.498		
	Rated Output (kW/min ⁻¹)	24.5 / 3000	27.0 / 3600	
	Fuel	ASTM No.2-D Diesel Fuel or Equivalent		
	Lubricant Oil	API Class CD or better		
	Lubrication Oil Volume (L)	6.0 (Effective 2.0)		
	Cooling Water Volume (L)	5.6 (Sub Tank Capacity 0.8 L included)		
Starting Method	Starter Motor			
Battery	75D31R(Japanese Industrial Standard)			
Fuel Tank Capacity (L)	63			
Dimen	Length (mm)	1680		
	Width (mm)	700		
	Height (mm)	950		
Dry Weight (kg)	614			

*Specifications subject to change without notice.

1. Equipment

- (1) Generator
 - Digital Display 1 piece
 - AC Voltage
 - Frequency Selector..... 1 piece
 - Breaker 1 piece
 - GFCI Receptacle 2 sets

- (2) Welder
 - Output Control Dial 2 pieces
 - Single/Dual Selector 1 piece

- (3) Others
 - Idle Control Switch 1 piece

 - Starter Switch 1 piece
 - Monitor Lamp 1 set
 - Water Temperature
 - Insufficient Battery Charge
 - Low Oil Pressure
 - Pre Heat
 - Overheat
 - Remote Control Receptacle 1 piece

- (4) Optional
 - Remote Control Box

2. Feature

- (1) Feature
 - Sound Level 57dB(A) at 7m distance under no load.
 - Generating Performance 2 x 20A Single Phase, 1 x 26A Three Phase
 - VRD Standard
 - Emergency Stop Standard
 - 2 Way Drive Control High/Auto
 - Environmental Low Noise Level
 - Remote Control Optional
 - Fuel Tank Capacity 63 Liters
 - Dry Weight 614kg
 - Dimensions (LxWxH) 1680 x 700 x 950 mm

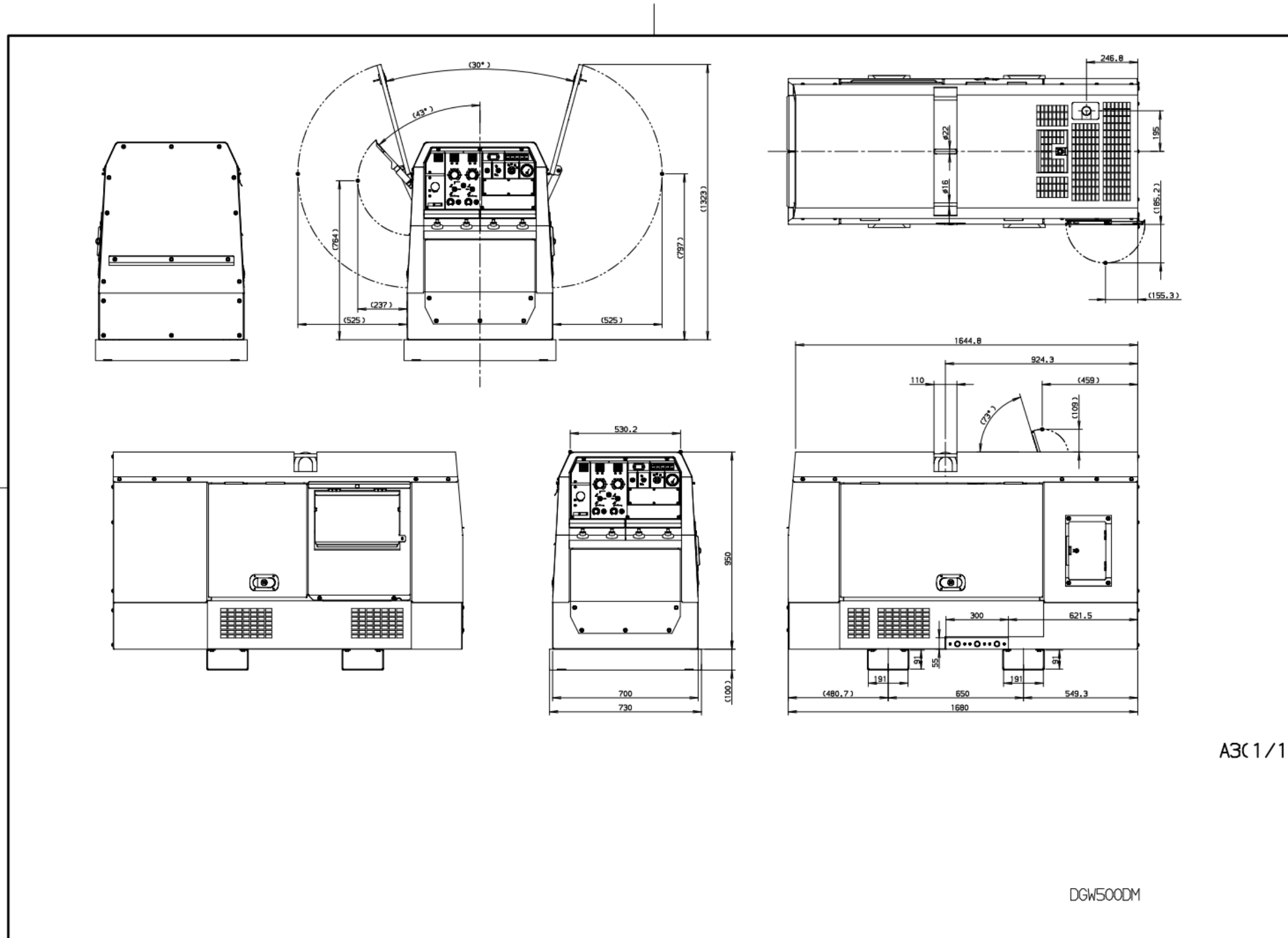
(2) Protection Device

Item	Set Value	Monitor Lamp	Engine Shut-Down
High Water Temperature	110°C	○	○
Insufficient Charging	-	○	○
Low Oil Pressure	98.1kPa	○	○
Overheat	-	○	-

(3) Accessories

Owner's & Operator's Manual	1 copy
Tool Set	1 set
• Spanner	3 pcs
• Screw Driver	1 pc
• Plug Wrench	1 pc
Starter Key	1 set
Door Key	2 sets
Bolt (M6)	1 pc

CHAPTER 4: APPEARANCE



A3(1/1)

DGW500DM

M

YAMABIKO CORPORATION

**35 SHIN-UJIGAMI, KITA-HIROSHIMA-CHO,
YAMAGATA-GUN, HIROSHIMA 731-1597 JAPAN**

Telephone: (81)826-72-5140

Fax: (81) 826-72-7004

www.yamabiko-corp.co.jp