shindaiwa®

SPECIFICATIONS

Diesel Engine Generator & Welder

DGW500DM-S1

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CHAPTER 1: GENERAL

1. Applications

- (1) Shielded Metal Arc Welding
- (2) Semi-Auto Arc Welding (MIG, MAG, Self-Shielded)
- (3) Gouging and Scratch TIG.
- (4) Power Sourcing for light, electric tools and appliances.

2. Standard

Design and production are in conformity with:

- (1) Japan Industrial Standards: JIS C 9300-1
- (2) Low Noise Type Construction Machinery Standard
- (3) Construction Machinery Gas Emission Regulation Standard by Ministry of Construction
- (4) International Protection (classified by IEC standard 60529)

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: 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			DGW500	DGW500DM-S1		
Generating Method			Rotatin	Rotating Field		
	Operation		Single	Dual		
	CC MODE	Rated Current (A)	480	230		
		Rated Voltage (V)	39.2	29.2		
		Duty Cycle (%)	60	80		
5		Current Adj. Range (A)	60 - 500 / 65 - 500	30 – 280 / 35 – 280		
Welding Generator		Welding Rod (mm)	φ2.6 – φ8.0	φ2.0 – φ6.0		
ene		Gouging Rod (mm)	φ3.2 – φ9.5	φ3.2 – φ5.0		
ng (CV MODE	Rated Current (A)	480	230		
/eldi		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	d (min ⁻¹)	3000 /	3000 / 3600		
	No Load Voltage (V)		MAX	MAX 85		
	Rated Frequency (Hz)		50 /	50 / 60		
	Rated Speed (min ⁻¹)		3000 / 3600			
tor	Phase		1-Ph	1-Phase		
Generator	Rated Voltage (V)		110 / 115	220 / 230		
	Rated Current (A)		15A×2	15A×2		
AC	Power Factor		1.0			
	Rated Output (kVA)		3.3 / 3.5	6.6 / 6.9		
	Rating		Continuous			
	Model		Kubota V1505			
	Туре		Vertical, Water-Cooled 4-Cycle Diesel Engine			
	Displacement (L)		1.498			
Φ	Rated Output (kW/min ⁻¹)		24.5 / 3000 29.0 / 3600			
Engine	Fuel		ASTM No.2 Diesel Fuel or Equivalent			
Ш	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	63		
<u></u>	Length (mm)		168	1680		
Dimen- sion	Width (mm)		70	700		
□ ″	Height (mm)		950			
Dry Weight (kg) 613						

^{*}Specifications subject to change without notice.

CHAPTER 3: EQUIPMENT AND FEATURE

1. Equipment (1) Generator 1-Phase Breaker (220/230V)......2 pcs. Earth Leakage Circuit Breaker (ELCB)2 pcs. (2) Welder Welding Mode Selector Switch (CV/CC Mode)2 pcs. Welding Rod Capacity Gouging Rod Capacity (3) Safety Device Emergency Stop Switch......1 pc. Earth Leakage Circuit Breaker (ELCB)2 pcs. 1-Phase Breaker (110/115V)......2 pcs. Fuel Inlet Cover (with a key locking system)1 pc. Engine Shut-Down Function (water temp./battery charge/oil pressure) (4) Equipment Digital Display (Voltage/Current/Frequency)1 pc. Starter Switch 1 pc. Water Temp. Battery Charge Oil Pressure Pre Heat Over Heat Hour Meter......1 pc.

2. Feature

(1) Feature

• Sound Level 57 dB(A) at 7m distance under no load.

Generating Performance 1-Phase2 Way Drive Control HIGH/AUTO

• Environmental Low Noise, Low Emission Level and Efficient fuel economy

Fuel Tank Capacity 63 LitersDry Weight 613 kg

• Dimensions (LxWxH) 1680 x 700 x 950 mm

(2) Protection Device

Item	Engine Shut-Down	
Water Temp.	~	
Battery Charge	~	
Oil Pressure	~	

(3) Fuel Economy

	Criteria	Fuel Consumption	Continuous Operating Hrs			
Welding						
No Load	Idle Control Switch at LOW	1.4L/hr. (0.37 gal./hr)	43.9			
		<duty 60%="" cycle:=""></duty>				
	Rated Current at 480A (SINGLE)	5.2L/hr. (1.37 gal./hr)	12.0			
		<duty 80%="" cycle:=""></duty>				
Loaded	Rated Current at 230A x 1 (DUAL)	3.8L/hr. (1.00 gal./hr)	16.4			
		<duty 80%="" cycle:=""></duty>				
	Rated Current at 200A x 2 (DUAL use simultaneously)	4.7L/hr. (1.24 gal./hr)	13.3			

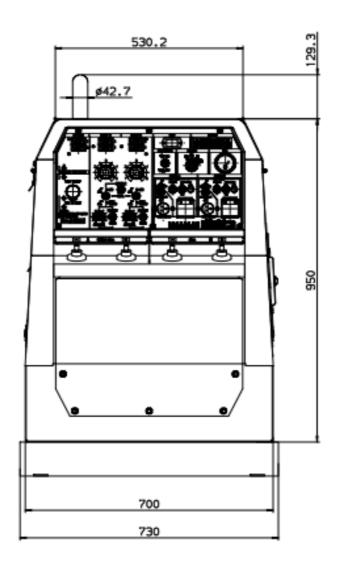
^{*}Data for the generator is not available.

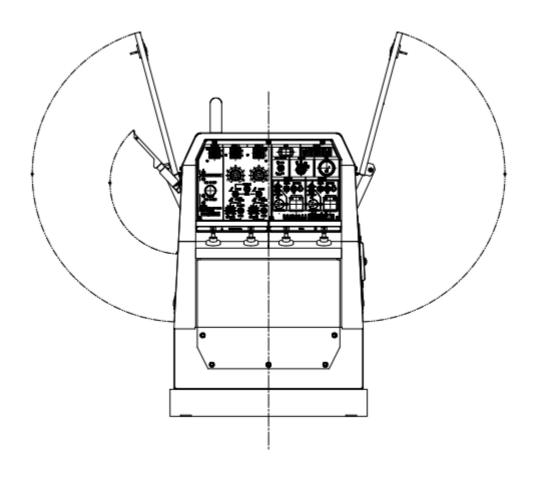
(4) Accessories

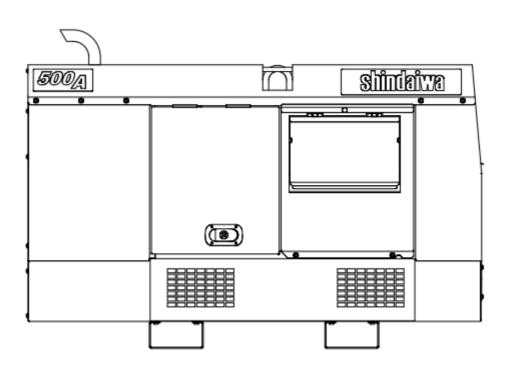
Owner's & Operator's Manual 1 copy
Starter Key 2 pcs.
Door Key 2 pcs.
Exhaust Pipe 1 pc.
Tool Kit 1 pc.

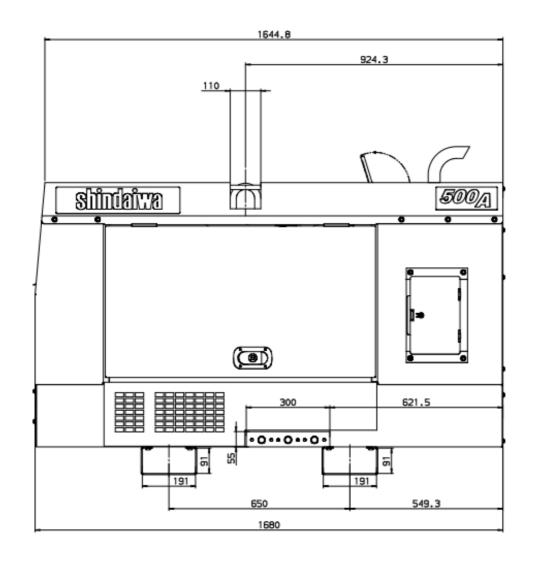
^{**} Above value is per calculation and it differs depending on the condition of the use.

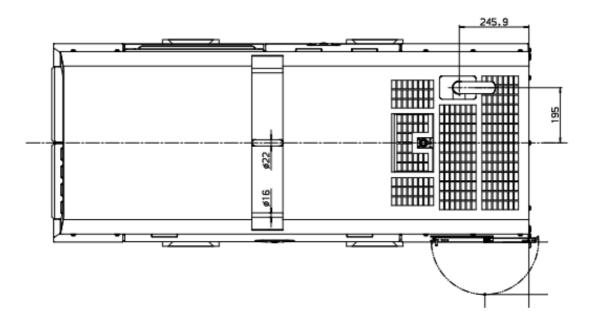
CHAPTER 4: APPEARANCE

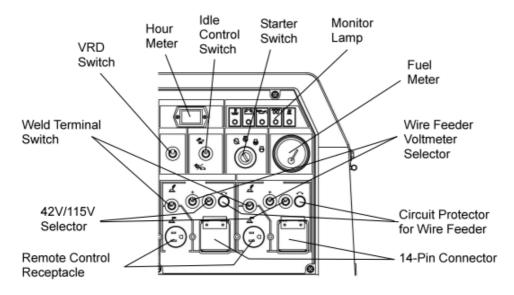


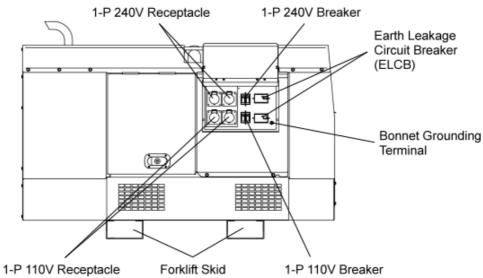


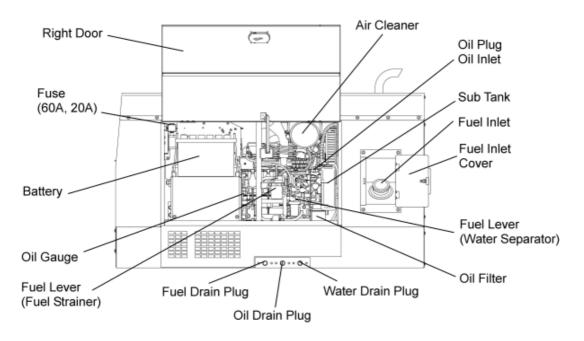


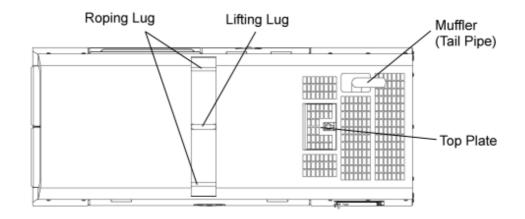


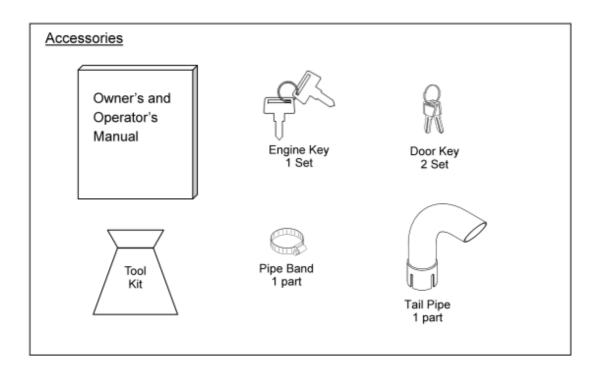












YAMABIKO CORPORATION

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