

# shindaiwa®

# RealDual® 500



## Field of Application

- ★ Construction
- ★ Fabrication
- ★ Pipeline
- ★ Mining
- ★ Rail Road
- ★ Offshore
- ★ Civil Engineering
- ★ Rental
- ★ Service Truck
- ★ Maintenance
- ★ Repair
- ★ Farming

★ Excellent ★ Good

## Welding Process

- CC Mode ★ Standard Rod
- ★ Cellulose Rod
- ★ Scratch TIG
- Gouging up to 9.5mm
- CV Mode ★ Wire

★ Excellent ★ Good • Standard

## Specification

### Welding DC Generator

	Single	Dual	
CC Mode	Rated Current (A)	480	230
	Rated Voltage (V)	39.2	29.2
	Duty Cycle (%)	60	80
	Current Adj. Range (A)	60-500 / 65-500	30-280 / 35-280
	Welding Rod Capacity (mm)	Φ2.6 - Φ8.0	Φ2.0 - Φ6.0
	Gouging Rod Capacity (mm)	Φ3.2 - Φ9.5	Φ3.2 - Φ5.0
CV Mode	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 Capacity (mm)	Φ0.6 - Φ2.4	Φ0.6 - Φ2.0
Rated Speed (min <sup>-1</sup> )	3000 / 3600		
No Load Voltage (V)	MAX85		

### AC Generator

Rated Frequency (Hz)	50 / 60	
Rated Speed (min <sup>-1</sup> )	3000 / 3600	
Phase Options	Single Phase	3-Phase
Rated Voltage (V)	115 / 127	200 / 220
Rated Current (A)	20A x 2	28.6 / 26.0
Power Factor	1.0	0.8
Rated Output (kVA)	4.6 / 5.1	9.9
Rating	Continuous	

### Dimensions

Overall Dimensions (mm)	(L)1680 x (W)700 x (H)950
Dry Weight (kg)	614

## Engine

Powered by	Model	Kubota V1505	Rated Output (kW/min <sup>-1</sup> )	24.5 / 3000	27.0 / 3600
	Engine Type	Vertical, Water-cooled, 4 cycle diesel	Fuel Tank Capacity (L)	63	
	Displacement (L)	1.498			

## Definition of the icons

- REALDUAL Welding Mode
- Adjust arc strength between soft and crisp
- Easy arc start
- CC/CV Welding mode
- Max open circuit voltage
- Stop engine immediately
- Voltage regulation device
- 2 connection of welding remote control
- Preset welding current

# DGW500DM-200

## Control Panel

1. AC Meter
2. DC Meter
3. VRD Lamp
4. Output Control Dial
5. Emergency Stop Switch
6. Single/Dual Selector
7. Weld Mode Selector
8. Arc Control Dial
9. Rod Selector



10. Hour Meter
11. Monitor Lamp
12. VRD Switch
13. Idle Control Switch
14. Starter Switch
15. Fuel Meter
16. Remote Control Connector
17. Weld Terminal A
18. Weld Terminal B

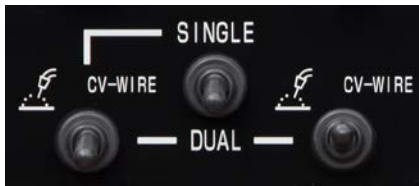
### AC OUTPUT PANEL



19. Ground Fault Circuit Interrupter (GFCI) Receptacle
20. 1-P Breaker
21. 3-P/1-P Output Terminal
22. Main Breaker
23. Bonnet Grounding Terminal

## Features

### RealDual<sup>®</sup> DUAL WELDING MODE



Shindaiwa's alternator is unique in coil winding. Welding power A, B, and AC generator are respectively driven by each coil winding. This feature ensures that each welding outputs has least electrical interference.

### ROBUST ALTERNATOR



Special varnished reliable Shindaiwa's alternator, offers robust features of protection against sand gravel, dust, and extreme hot weather condition.

### WIRE ROD SELECTION



RealDual<sup>®</sup> 500 accommodates variety kinds of rod categories which includes AWS7018 of low-hydrogen' s and AWS7010 of high cellulose' s.

### EMERGENCY STOP



You can stop the engine immediately in emergency conditions to avert hazardous situations.

### VRD



VRD, or Voltage Reduction Device reduces no-load voltage when the equipment does not perform welding to minimize electrical shock hazard.