

shindaiwa®

RealDual® 500



Field of Application

- ★ ★ Construction
- ★ ★ Fabrication
- ★ ★ Piping
- ★ ★ Mining
- ★ ★ Railroad
- ★ ★ Offshore
- ★ ★ Rental
- ★ ★ Civil Engineering
- ★ ★ Service Truck
- ★ ★ Maintenance
- ★ ★ Repair
- ★ ★ Farming

★ ★ Excellent ★ Good

Welding Process

★ ★ Excellent ★ Good • Standard

- CC Mode
- ★ ★ Cellulose Rod
- ★ ★ Low Hydrogen Rod
- ★ Scratch TIG
- Gouging 9.5mm

Specification

Welding DC Generator

	CC	Single	Dual
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)		Φ2.6-8.0	Φ2.0-6.0
Gouging Rod (mm)		Φ3.2-9.5	Φ3.2-5.0
	CV	Single	Dual
Rated Current (A)		480	230
Rated Voltage (V)		39.0	22.5
Duty Cycle (%)		60	80
Current Adj. Range (A)		14-40	14-29
Wire Size (mm)		0.6-2.4	0.6-2.0

AC Generator

Rated Frequency (Hz)	50 / 60	
Rated Speed (min ⁻¹)	3000 / 3600	
Phase	1-Phase	
Rated Output (kVA)	3.3 / 3.5	6.6 / 6.9
Rated Voltage (V)	110 / 115	220 / 230
Rated Current (A)	15A x 2	15A x 2
Power Factor	1.0	

Dimensions

Overall Dimensions (mm)	(L)1680 x (W)700 x (H)950
Dry Weight (kg)	613
No Load Voltage (OCV)	MAX85V

Engine

Powered by	Model	Kubota V1505	Rated Output (kW/min ⁻¹)	24.5 / 3000	29.0 / 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
- CC Welding Mode
- Max open circuit voltage
- Easy arc start
- Adjust arc strength between soft and crisp
- Stop engine immediately
- 2 connection of welding remote control
- Preset welding current

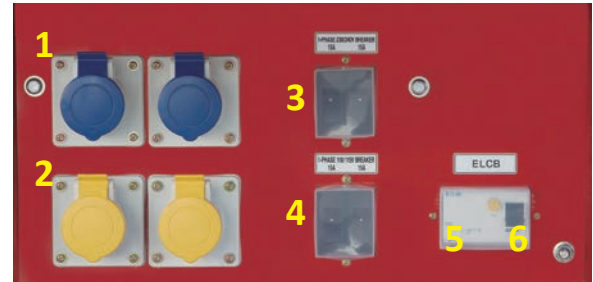
DGW500DM-SI

Control Panel



- 1. AC Meter
- 2. DC Meter
- 3. Output Control Dial
- 4. Single/Dual Selector Switch
- 5. CV/CC Selector Switch
- 6. Arc Control Dial
- 7. Rod Selector Switch
- 8. Emergency Stop Switch
- 9. Hour Meter
- 10. Monitor Lamp
- 11. Idle Control Switch
- 12. Starter Switch
- 13. Fuel Meter
- 14. Remote Control
- 15. 14-Pin Connector
- 16. Wire Feeder Voltmeter Switch
- 17. 42V/115 Selector Switch
- 18. Circuit Protector For Wire Feeder
- 19. Weld Terminals Switch
- 20. Welding Terminal A
- 21. Welding Terminal B

AC OUTPUT PANEL



- 1. 1-Phase 220/230 Receptacle
- 2. 1-Phase 110/115 Receptacle
- 3. 1-Phase 220/230 Breaker
- 4. 1-Phase 110/115 Breker
- 5. Earth Leakage Circuit Breaker (ELCB)
- 6. Bonnet Grounding Terminal

14. Remote Control Receptacle



15. 14-pin Connector



Product Features

RealDual®
DUAL WELDING MODE

Shindaiwa's alternator is unique in coil winding. Welding power A, B, and AC generator are driven respectively by each electrode. This feature ensures two independent welding outputs with least mutual interference.

ROBUST ALTERNATOR

Triple-varnish, standard spec for Shindaiwa's alternator for the global market, offers robust features of protection against sand gravel, dust, rodent, and burnout including layer short.

ARC CONTROL DIAL (CC MODE)

Arc control dials adjust welding arc between mild for capping and crisp for root-pass.

ENHANCED SAFETY

Temperature sensor inside the alternator prevents burnout by detecting anomalous temperature caused by over loading.