

shindaiwa®

RealDual® 400



Field of Application

★ Excellent ★ Good

- ★ Pipe Line
- ★ Construction
- ★ Civil Engineering
- ★ Rental
- ★ Offshore
- ★ Fabrication
- ★ Mining
- ★ Rail Road
- ★ Service Truck
- ★ Maintenance and Repair

Welding Process

★ Excellent ★ Good • Standard

- CC Mode
- ★ Standard Rod
- ★ Cellulose Rod
- ★ Scratch TIG
- Gouging up to 8.0mm
- CV Mode
- ★ Flux-cored Wire

Specification

Welding DC Generator

CC Droop	Single	Dual
Rated Current (A)	390	200
Rated Voltage (V)	35.6	28.0
Duty Cycle (%)	60	100
Current Adj. Range (A)	95-400	50-210
Welding Rod Capacity (mm)	Φ2.6-8.0	Φ2.0-4.0
Gouging Rod (mm)	Φ3.2-8.0	Φ3.2-5.0

AC Generator

Rated Frequency (Hz)	50	
Rated Speed (min ⁻¹)	3000	
Phase	1-Phase	3-Phase
Rated Output (kVA)	10.8	14.0
Rated Voltage (V)	240	415
Power Factor	1.0	0.8

CV	Single	Dual
Rated Current (A)	350	200
Rated Voltage (V)	32.5	21.0
Duty Cycle (%)	100	100
Current Adj. Range (A)	14-35	14-23.5
Wire Size (mm)	0.6-2.0	0.6-1.6

Dimensions

Overall Dimensions (mm)	(L)1435 x (W)700 x (H)848
Dry Weight (kg)	480
No Load Voltage (OCV)	MAX85V

Engine

Powered by Kubota	Model	Kubota D1105	Rated Output (kW/min ⁻¹)	18.5/3000
	Engine Type	Vertical, Water-cooled, 4 cycle diesel	Fuel Tank Capacity (L)	43
	Displacement (L)	1.123		

Definition of the icons

REALDUAL welding mode

Optimizes the engine speed in proportion to the output voltage

Voltage regulation device

CC/CV/Droop Welding mode selector

CC/CV Welding mode

Preset welding current

Adjust arc strength between soft and crisp

Stop engine immediately

Max open circuit voltage

Containment to prevent leakage of fuel and oil

DGW420DM/ANZ

Control Panel



- | | | |
|-------------------------|-----------------------------|--|
| 1. AC Meter Selector | 10. Monitor Lamp | 18. Emergency Stop Switch |
| 2. AC Meter | 11. Operation Mode Selector | 19. Weld Mode Selector |
| 3. ECO Drive Display | 12. Output Control Dial | 20. Circuit Protector for Wire Feeder |
| 5. Single Dual Selector | 13. Warning Monitor Lamp | 21. 14 Pin Connector (under the cover) |
| 4. DC Meter | 14. Weld Terminal Switch | 22. 9 Pin Connector (under the cover) |
| 6. VRD Lamp | 15. 42V/115V Selector | 23. Arc Control Dial |
| 7. VRD Switch | 16. Hour Meter | 24. Weld Terminal A |
| 8. Idol Control Switch | 17. Fuel Meter | 25. Weld Terminal B |
| 9. Starter Switch | | |

AC OUTPUT PANEL



- 26. 1-P Receptacle
- 27. 3-P Receptacle
- 28. Main Breaker
- 29. Earth Leakage Circuit Breaker (ELCB)
- 30. 1-P Breaker
- 31. 3-P Breaker
- 32. Bonnet Grounding Terminal

14 Pin Connector x1



9 Pin Connector x2

Product Features

SPILL CONTAINMENT/RAIN WATER PROTECTION

Our design is more responsive to protect nature. New features are incorporated to follow environmental regulations.

- A factory-equipped spill containment, keeps fuel, oil, and coolant inside to avoid discharging to the ground.
- An unique ventilation hole will guide trapped rain water outside the spill containment and drain it separately.



ROBUST ALTERNATOR



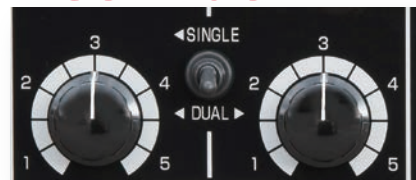
Special varnished reliable Shindaiwa's alternator, offers robust features of protection against sand gravel, dust, and extreme hot weather condition.

ECO MODE



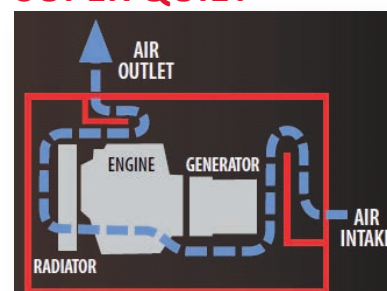
The engine speed optimization function enables the engine to operate at an optimal speed corresponding to the weld output, thereby reducing noise, exhaust gas emission, and saving fuel consumption.

RealDual® 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 no electrical interference.

SUPER QUIET



Thanks to skillfully designed airflow, the equipment achieves Super Quiet operation. This means that the working unit does not interrupt conversation between operators.