

# REDSTAR DLW-400ESW



## SPECIFICATIONS

### DC Welding power

Rated Output (kW) / e-mode	Single 10.96 / 11.90 - <b>7.10</b> Dual 4.39x2 / 4.73x2 - <b>2.98x2</b>
Rated Current(A) / e-mode	Single 330 / 350 - <b>240</b> Dual 165 / 175 - <b>120</b>
Rated Voltage(V) / e-mode	Single 33.2 / 34.0 - <b>29.6</b> Dual 26.6 / 27.0 - <b>24.8</b>
Welding Current Range (A) / e-mode	Single 60~380 / 60~400 - <b>60~240</b> Dual 30~190 / 30~200 - <b>30~120</b>
Rated Duty(%) / e-mode	<b>60 / 100</b>

### AC POWER source

Frequency (Hz)	50 / 60
Rated Output (kVA)	15.0
Rated Voltage (V)	200 / 220 or 380~440
No. of Phase	3-Phase 4 Wire
Power Factor	0.8 (Lagging)

### Diesel Engine

Make / Model	Kubota D1005-KA
Type	4-cycle, vertical, water cooled with radiator
Rated Output (kW)	16.5 / 19.1
Rated Speed (min-1)	3000 / 3600
Displacement (L)	1.001
Fuel	ASTM No. 2 diesel fuel or equivalent
Fuel Consumption (L/h) / e-mode	3.24 / 3.76 / <b>2.18</b>
Fuel Tank Capacity (L)	42
Battery x Quantity	55B24Lx1

### Unit

Length / Width / Height (mm)	1520 / 720 / 770
Dry Weight (kg)	460

### Noise

7mdB (A) / e-mode	63 / 66 / <b>59</b>
-------------------	---------------------

### E-MODE FUNCTION REDUCES FUEL CONSUMPTION AND NOISE LEVEL

With e-mode operation ( idling speed ), the unit controls welding current up to 160A on DLW-300ES/DLW-300ESW and 240A on DLW400ESW respectively, reducing fuel consumption by 25-30% compared with other standard welders. In addition, newly developed hood structure incorporating a new cooling system dramatically reduces noise level.

### CLEAN ENGINE

The engine equipped with the Closed Breathing System which keeps the blow-by gas in the machine, and the aluminium radiator which does not cause lead pollution is categorised as a construction machine that satisfies the emission gas regulation stage 2, enforced by the Ministry of Land, Infrastructure and Transport (except for DAW-180SS).

### SLOWDOWN DEVICE REDUCES NOISES AND SAVES

The Slowdown unit automatically lowers engine speed during no-load, reducing noise and increasing fuel efficiency.

### EASY DAILY INSPECTION & MAINTENANCE

Daily inspection and maintenance can be carried out one side of the machine. In addition, the radiator can be cleaned easily by removing the front cover.

### SWITCH KEY OPERATION RESTARTS THE ENGINE WITH AIR VENTED AUTOMATICALLY

The generator is equipped with an automatic air-venting unit that eliminates air by turning a switch key when restarting the engine after fueling.

### ALTERNATOR REQUIRES MAINTENANCE FREE

The use of brushes or slip rings in the alternator eliminates the need for maintenance.

### VARIOUS PROTECTIVE SYSTEMS ASSURING SAFETY

This machine

- automatically cut the power off when over-loading DC output. (except for TLW-230ES)
- protect over-loading AC output by shutting down its circuit breaker.
- automatically stop the engine with the warning indicators, at low lube oil pressure, high water temperature, and insufficient charging of the battery.
- prevent from electrical leaking with its relay. (optional for DAW-180s. DAW-300SS. TLW-230S)

### OPTIONS

Four-wheel kit, exhaust pipe attachment, remote controller, measures against salt damage.