

REDSTAR DLW-300ES



SPECIFICATIONS

DC WELDING POWER

Rated Output (kW) / e-mode	7.90 / 8.74 / 4.22
Rated Current(A) / e-mode	260 / 280 / 160
Rated Voltage(V) / e-mode	30.4 / 31.2 / 26.4
Welding Current Range (A) / e-mode	30~280 / 30~300 / 30~160
Rated Duty(%) / e-mode	50 / 100

AC POWER SOURCE

Frequency (Hz)	50 / 60
Rated Output (kVA)	10.0
Rated Voltage (V)	200 / 220 or 380~440
No. of Phase	3-Phase 4 Wire
Power Factor	0.8 (Lagging)

DIESEL ENGINE

Make / Model	Yanmar 3TNE68-U
Type	4-cycle, vertical, water cooled with radiator
Rated Output (kW)	12.9 / 15.1
Rated Speed (min ⁻¹)	3000 / 3600
Displacement (L)	0.784
Fuel	ASTM No. 2 diesel fuel or equivalent
Fuel Consumption (L/h) / e-mode	2.08 / 2.37 / 1.28
Fuel Tank Capacity (L)	36
Battery x Quantity	55B24Lx1

UNIT

Length / Width / Height (mm)	1410 / 680 / 760
Dry Weight (kg)	384

NOISE

7mdB (A) / e-mode	63 / 65 / 57
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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.

WELDING CHARACTERISTICS CHANGEABLE WITH A TURN OF A DIAL

The welding conditions can be adjusted from hard to soft finish by turning the arc force trimmer dial. In addition DLW-300ESW/400ESW. series welders can be adjusted separately with two persons. The stability of welding current is excellent at soft positions, facilitating high-quality welding (pipe welding, vertical-position welding etc.) Arcing can be started easily at hard positions.

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.