

REDSTAR DCW-400ES



SPECIFICATIONS

WELDER

CC MODE (E-MODE)

Rated Output	11.0kW / 11.9kW / 7.10kW
Rated Current / Voltage / Duty	330A, 350A / 33.2V, 34.0V / 60% 240A / 29.6V / 100%
Current Range	High Range 60~380A / 400A 60~240A Low Range 30~190A / 200A 30~190A / 200A
Current Selector	2 steps / 2 steps
Current at 100% duty cycle	High Range 250A / 270A, 240A / 240A Low Range 125A / 135A, 120A / 120A
Rated Speed	3000min ⁻¹ / 3600min ⁻¹ , 2200min⁻¹ / 2200min⁻¹

CV MODE

Rated Output	10.1kW / 1.0kW / 4.80kW
Rated Current / Voltage / Duty	330A / 350A, 30.5V / 31.5V, 60% 240A, 20.0V, 100%
Welding Voltage Range	High Range 14~34V / 36V 14~20V Low Range 14~34 / 36V 14~30V
Current at 100% Duty Cycle	High Range 250A / 270A, 240A / 240A Low Range 125A / 1335A, 120A / 120A
Rated Speed	3000min ⁻¹ / 3600min ⁻¹ , 2200min⁻¹ / 2200min⁻¹

GENERATOR

Number of phases	3-phases, 4-wire
Rated Output	15kVA at 50Hz 15kVA at 60Hz
Rated Voltage	380V (or 400V or 415V)
Frequency	50Hz / 60Hz

ENGINE

Model	Kubota V1305
Type	4-cycle, water-cooled diesel engine
Rated Output	21.2kW at 3000min ⁻¹
Rated Speed	23.5kW at 3600min ⁻¹ 3000min ⁻¹ for 50Hz 3600 min ⁻¹ for 60Hz
Displacement	1.335L
Fuel	ASTM No. 2 diesel fuel or equivalent
Fuel Consumption	3.52L/h / 4.03L/h / 3.1L/h
Battery x Quantity	12V-65Ahx1 (80D26R)

UNIT

Length / Width / Height (mm)	1540 / 720 / 885
Dry weight (kg)	495

Noise

7mdB (A)	67dB / 70dB / 59dB
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400A DC Arc Welding Power Source

DCW- 450S can perform high-quality welding on pipelines and other welding methods. (types of welding: Stirck, Tig, Mig Flux-cored, Gouging, etc.)

High-Capacity High-Performance Generator

The unit can also be used as a 20kVA / 60Hz high-capacity generator. With a voltage regulation of within $\pm 1.0\%$. High-quality AC power can be used while welding is being performed.

Low Fuel Consumption And Long Life

The unit incorporates a low rmp (1,500 / 1,800 min⁻¹) high-output diesel engine featuring low fuel consumption. Operation at low speed is easy on the engine, facilitating especially long life.

Special Design Facilitates Use In Virtually Any Location

The unit has been designed to operate in virtually all locations, form very hot to cold cilmates. It is ideal for high-quality welding and as a dependable source of power.

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.