

DIESEL ENGINE-DRIVEN DC WELDER/AC GENERATOR

DLW-400LSW

LOW EMISSION & SILENT WELDER

Greatly improved arc welding performance & Improved energy efficiency



High Performance

- Duty cycle 100% is realized.
- The capacity of rated output and rated current improved.
- Welding Mode Selector Switch is equipped.

User Friendly

- Compact, lightweight and quiet.
- DLW-400LSW can be used as a 15kVA 50/60Hz high capacity generator.

Economy & Low Emission

- 3 Position control of engine rotation e-mode is equipped.
- DLW-400LSW carries low emission engines.

Safety Devices

- Voltage reducing device is equipped.
- DLW-400LSW can automatically cut the power off when over-loading DC output.
- Protect over-loading AC output by shutting down its circuit breaker.

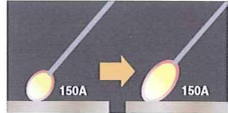
PERFORMANCE

Duty Cycle 100% is realized:

Denyo's welding machines realized duty cycle 100% by adopting high-performance generators and allowance-rich engines.

Welding Mode Selector Switch is equipped:

DLW-400LSW is equipped with Welding Mode Selector Switch which enables the welding workers to change the working mode between the drooping characteristics mode and the constant current characteristic mode.



Constant current characteristic mode

Even when the arc length becomes long and thus the voltage rises, the current remains same.



Drooping characteristic mode

When the arc length becomes long and thus the voltage rises, the current decreases.

Short-circuit current during welding work can be adjusted:

The conditions of welding work can be freely adjusted from "Hard" to "Soft" at the discretion of a welding worker by Arc Force Regulator. When "Soft" is selected, the current for welding work becomes stable and welding of pipes and upward welding become easier to do. On the other hand, when "Hard" is selected, start of arc becomes much smoother.



SPECIFICATION

DLW-400LSW

DC Welding Power

Rated Output	Single 12.9/13.9kW Dual 5.07×2/5.42×2kW
Rated Current	Single 370/390A Dual 185/195A
Rated Voltage	Single 34.8/35.6V Dual 27.4/27.8V
Welding Current Range	Single 60~380/60~400A Dual 30~190/30~200A
Rated duty cycle	100%
Applicable electrode	Single 2.0~8.0mm Dual 2.0~4.0mm

AC Power Source

Frequency	50/60Hz
Rated Output	15.0kVA
Rated Voltage	200/220/230/240V or 380/400V
No. of Phase	3-Phase, 4wire
Power Factor	0.8 (Lagging)

THE FEATURE

3Position control of engine rotation e-mode is equipped:

DLW-400LSW is able to control in a non-step fashion the number of rotations in compliance with the load to be applied and a lower noise level and lower fuel consumption are attained with an excellent job performance. DLW-400LSW is able to control in a non-step fashion the number of rotations in compliance with the load to be applied and a lower noise level and lower fuel consumption are attained with an excellent job performance.

Variable Speed Mode

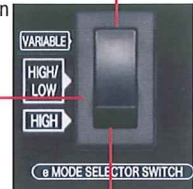
When the welding work starts, the rotation of equipped engine works under non-step and variable rotation manner and the welding machine works at high speed mode when it is connected to alternate current AC power and works at low speed mode when it is under no load of current.

High/Low Speed Mode

When the welding work is performed by the machine or the welder is connected to alternate current AC power, the machine works at high speed mode, and when the machine is under no load of current, it works at low speed mode.

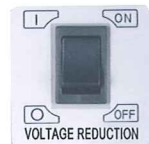
High Speed Mode

The welder works at high speed mode regardless no-load conditions or loaded conditions.



Voltage reducing device is equipped:

DENYO's engine-driven welding machines is capable to reduce the welding open circuit voltage down to 15V for non-working conditions and thus it is possible to prevent electric shocks of welding workers even at a place of a high altitude and a high humidity.



Diesel Engine

Model	Kubota D1105-K3B
Type	4-cycle, vertical, water cooled with radiator
Rated Output	17.8/20.7kW
Rated Speed	3000/3600min ⁻¹
Displacement	1.123 L
Fuel	ASTM NO.2 diesel fuel or equivalent
Fuel consumption	2.43/3.69 L/h ^{*1}
Fuel Tank Capacity	42 L
Battery×Quantity	55B24L×1

Dimensions/Weight

Length×Width×Height	1520×700×770 mm
Dry Weight	471 kg

Noise

7mdB(A)	64.1/67.5 ^{*2}
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*1 The fuel consumptions herein are measured under the condition that welding load is a rated value and the duty cycle is fixed at 50%.

*2 The noise levels herein stated are the averaged value of the measured values of four directions of 7 meters length under non-loaded condition.

- When a welding machine and a generator are used simultaneously, please use them according to the instructions stipulated in the Operation Manual.
- The specifications, appearance and/or coloring of the products may be subject to change without notice.
- Due to printing conditions of this brochure, coloring of the products may not be same as printed herein.
- Storage, transportation and usage of the products shall, at any time, be carried out in accordance with the Operation Manual.

Denyo The Denyo trademark is widely recognized as a brand, and is a registered trademark in 90 countries around the world.

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