

Denyo[®]

DIESEL ENGINE-DRIVEN DC WELDER/AC GENERATOR

DAW-500SS

High Performance 500A Permanent Magnet Welder DAW-500SS

-  **Greatly improved arc welding performance**
-  **100% duty cycle realized at 350A**
-  **Compact, lightweight and quiet**
-  **Improved energy efficiency**



FEATURES

Dramatically improved arc welding performance

The 500A welder incorporates an innovative power generator with a permanent magnet and newly developed current control system that offers stable arc performance for all sizes of welding rods. This high-quality welding power source is suitable for pipeline construction and other projects.

Lightweight, compact design improves on-site maneuverability

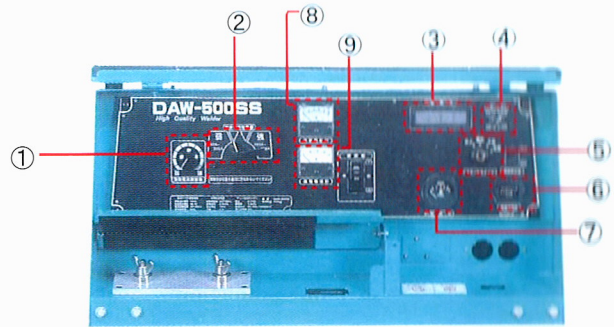
The welder's newly developed power generator incorporates a brushless permanent magnet and field coils that greatly reduce overall weight. Compared to previous models, 500A's powerful generator is more efficient, compact, lighter weight.

Economical owing to low fuel consumption

A built-in idle control unit incorporated into the 500A's generator increases fuel efficiency and improves performance.

Designed for increased safety

The welding set is equipped with safety devices as standard equipment, such as an emergency shut-off device to protect the generator at welding output overload and the engine at low oil pressure, high water temperature and battery insufficient charge.



- ① Current Regulator
- ② Current Range Selector Switch
- ③ Warning Lamp Unit (Oil, Water, Charge, Preheat)
- ④ Idle Control Switch
- ⑤ Starter Switch
- ⑥ Hour Meter
- ⑦ Fuel Gauge
- ⑧ DC Voltmeter
- ⑨ DC Ammeter

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. Switch key operation restarts the engine with air vented automatically. Alternator requires maintenance free.

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



SPECIFICATIONS

DAW-500SS	
DC Welding Power	
Rated Output	17.7 kW
Rated Current	460A
Rated Voltage	38.4V
Welding Current Range	40-500A
Rated duty cycle	60%
Applicable electrode	2.0mm-8.0mm
AC Power Source	
Frequency	50/60Hz
Rated Output	3.0kVA
Rated Voltage	100V
No. of Phase	1-Phase
Power Factor	1.0
Diesel Engine	
Model	Kubota D1703-KA
Type	4-cycle, water-cooled diesel engine
Rated Output	25.4kW
Rated Speed	2800min ⁻¹
Displacement	1.647L
Fuel	ASTM No.2 diesel fuel or equivalent
Fuel consumption	5.0L/h
Fuel Tank Capacity	45L
Battery×Quantity	55B24L × 1
Dimensions/Weight	
Length×Width×Height	1420×800×900mm
Dry Weight	505kg
Noise	
7mdB(A)	65dB

*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.



Denyo Co., Ltd.
 Head office : 2-8-5, Nihonbashi-horidomecho, Chuo-ku, Tokyo
 103-0012, Japan
 Tel: +81-3-6861-1111 Fax: +81-3-6861-1181
<http://www.denyo.co.jp>