HIGH PERFORMANCE DIESEL WELDING SET

DAW-500S



DAW-500S

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, and engine output requirement has been reduced by approximately 20%.

Economical owing to low fuel consumption

A built-in slow-down 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.

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CONTROL PANEL

Standard	
Current Regulator	

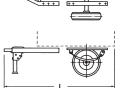
Oil Pressure Gauge

Option Set 1

- Option Set 3 **DC** Voltmeter
- ② Current Range Selector Switcl Water Temperature Gauge SAC Voltmeter Battery Charging Ammeter DC Ammeter
- Warning Lamp Unit (Oil, Water, Charge, Preheat) 4 Idle Control Switch
- Starter Switch **6** Hour Meter
- Remote Control Receptacle Polarity Change-
- **⑦** Fuel Gauge
- ®Remote Control Switch Over Switch
- 8 AC Circuit Breaker

TRAILER

	2-Wheel Trailer
Length	2070mm
Width	1290mm
Height	1325mm
Dry weight	520kg
Tire size	5.00 10-6PR



Dimensions and weight include welding set.



ISO 9001:2008 Certified ISO 14001:2004

Specifications

MODEL DAW-500S							
	Туре	Performance magnet type		Model	Kubota D-1703		
	Rated speed	2800min ⁻¹		Туре	4-cycle, water-cooled diesel engine		
^{ال}	Rated output	DC18kW		Rated output	25.4kW (34.5PS)/2800min ⁻¹		
DC WELDING GENERATOR	Rated current	460A		No. of cylinders	3		
. WEI	Rated voltage	38.4V	ш	Displacement	1.647L		
8 8	Current range	40~500A	ENGINE	Fuel	ASTM No. 2 diesel fuel		
	Applicable electrode	2.6~8 mm	ш		or equivalent		
	Duty cycle	75%		Fuel consumption	5.2L/hr		
	Maximum output	AC3.0kW		Fuel tank capacity	45L		
AUXILIARY AC POWER	Rated voltage	100/110/120/200/220/230/240V		Starting system	Electric starting		
AU	Frequency 50Hz or 60Hz			Cooling system	Water-cooled by radiator with fan		
Dimensions (LxWxH) 1260 x 800 x 870 mm		Dr	435kg				

The specifications given herein are subject to change without notice.

Direct inquiries to the nearest Denyo distributor or to Denyo co.,Ltd



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DIESEL ENGINE-DRIVEN DC WELDER/AC GENERATOR

DAW-500SS

High Performance 500A Permanent Magnet Welder DAW-50055

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





FEATURES

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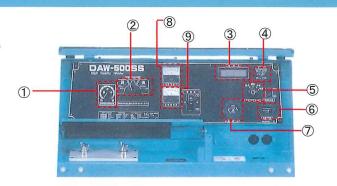
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1Current Regulator

2 Current Range Selector Switch

3 Warning Lamp Unit

(Oil, Water, Charge, Preheat)

4 Idle Control Switch

5Starter Switch

6Hour Meter

7Fuel Gauge

®DC Voltmeter

9DC Ammeter

Easy Daily Inspection & Maintenance

Daily inspection and maintenance can be carried out one side of the machine. In addition, the radiater can be cleaned easily Switch key operation restarts the engine with air vented automatically alternator requires maintenace free.

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



SPECIFICATIONS

	DAW	-500SS
DC Welding Power		Diesel
Rated Output	17.7 k W	Model
Rated Current	460A	Type
Rated Voltage	38.4V	Rated
Welding Current Range	40-500A	Rated
Rated duty cycle	60%	Displac
Applicable electrode	2.0mm-8.0mm	Fuel
AC Power Source		Fuel co
Frequency	50/60Hz	Fuel Ta
Rated Output	3.0kVA	Battery
Rated Voltage	100/110/120/200/220/230/240V	Dimer
No.of Phase	1-Phase	Length
Power Factor	1.0	Dry We
	-	Noise

Diesel E	ngine
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Model	Kubota D1703-KA
Туре	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*1
Fuel Tank Capacity	45L
Battery×Quantitiy	65D31R×1

Dimensions/Weight

Length×Width×Height	1420×800×900mm
Dry Weight	505kg
Noise	
7mdB(A)	65dB *2

^{*1} The fuel consumptions herein are measured under the condition that welding load is a rated value and the duty cycle is fixed at 60%

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^{*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.



Smart Stick function improves efficiency and productivity of work!!

You can restart the engine even if you are working away from the welder. The operator needs only strike the welding stick!



Finish welding.



The engine automatically stops within 1 to 30 minutes after welding ceases.



When restarting work, tapping the base metal with the electrode.



The engine welder will restart automatically.



Resume welding works.

Innovative Smart stick technology will bring you awesome benefits!

UP the fuel efficiency

The sensor automatically shuts off the engine during periods of no load, so reduce the fuel consumption.

Comparison of fuel cost



SAVE the maintenance cost

Less engine running hours = periodic replacements parts life will be longer.

And extend the life-span of welding machine too.







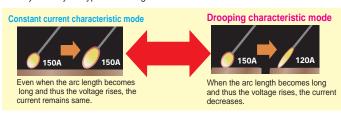


DLW-500ISW

Further more features

Welding Mode Selector Switch

EASY to weld! Even beginners can do stable welding. For professionals, they can adjust welding penetration as they like. Only select your type of welding mode!



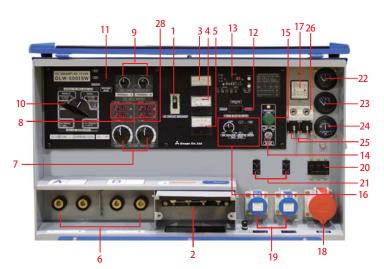
SAVE the fuel & maintenance cost.

The sensour automatically control the engine speed by the load capacity.

HIGH/LOW: Engine speed will be idle during no operation or the load capacity is low.

VARIABLE: Engine speed will be change depends on the welding Amp.





- 1.AC Circuit Breaker
- 2.3-Phase output Terminal
- 3.AC Voltmeter
- 4.AC Ammeter
- 5.Frequency Meter
- 6.DC Welding Output Terminal
- 7.Current / Voltage Regulator
- 8.Digital Panel

OPTION

- (DC Voltmeter, DC Ammeter)
- 9.Arc Force Regulator

- 18. 3-Phase AC Output Receptacle
- 19. 1-Phase AC Output Receptacle
- 20.Circuit Breaker for 3-Phase AC Output Receptacle
- 21.Circuit Breaker for 1-Phase AC Output Receptacle

- 10.SINGLE-DUAL Selector Switch
- 11.Droop CC-CV Selector Switch
- 12.e-mode selector Switch
- 13.Engine Monitor Warning Lamp Unit (Oil Press. / Water Temp. / Charging / Preheat Hour Meter • Fuel Meter)
- 14.Starter Switch
- 15.Engine Start Button
- 16. Smart Stick Selector Switch/ Smart Stick Time Regurator
- 17. Earth Leakage Relay

OPTION SET 1

22.Oil Pressure Gauge 23.Water Temperature Gauge 24.Battery Charging Ammeter

OPTION SET 2

25.Remote Control Receptacle 26.Remote Control Switch

OPTION SET 3

27.VRD SELECTOR (in the Bonnnet) 28.VRD Lamp

SPECIFICATION TABLE

SPEC./MODEL				DLW-500ISW										
	Frequency Hz			2	50				60					
	Ra	ted o	utput	kW	/ (CC:17.1/CV:16.4			CC:18.8/CV:18.2				8.2	
	Ra	ted c	urrent	A			45	50		480				
G	Ra	ted v	oltage	\	/ C	CC:	38.0/	CV:3	6.5	CC:39.2/CV:38.0				
<u> </u>	C:	-1-	Current Ra	ange A	\	CC	2:60	~480)		CC	:60	~50	00
	Siri	igle	Voltage Ra	ange \	/	C	:V:14	1~37	7	CV:14~40)
OWELE OUTPL	Du	al	Current Ra	ange A	\	CC	C:30°	~240)	CC:30~250			50	
ă	Dual Voltage Range V		/	CV:14~29			CV:14~29							
	Rated Speed min-1			3000				3600						
	Du	ty Cy	cle	%	60									
		Rate	ed output	kVA	1				1	5				
		Rate	ed voltage	\	/ 2	200 380 400 415		220	240	380	415	440		
쏪ᆫ	se	Rate	ed current	A	4:	43.3 22.8 21.7 20.9		39.4	36.1	22.8	20.9	19.7		
M.	Phase	No.	of Phase		3-Phase 4wire									
87	e F	Power Facter		0.8 (Lagging)										
QQ O	Three	Exci	tation		Brushless type (with AVR)					₹)				
	'	No.	of poles		2									
		Insulation Class F			Class F									

Maker/Model		KUBOTA V1505-K3B				
Туре		Water-cooled diesel engine				
Number of cylinders		4				
Bore×Stroke	mm	78 x 78.4				
Total displacement	L	1.498				
Rated output	kW/min ⁻¹	24.6/3000	27.1/3600			
Battery		80D26R x 1				
Fuel		DIESEL FUEL AS	STM NO.2 or eq.			
Fuel tank capacity	L	56	i			
Lubricating oil capacity L		6.0 (Oil pan 5.8L+Oil filter 0.2L)				
Cooling water capac	ity L	4.85 (Reserve tank included)				
Length	mm	155	0			
Width mm		800				
Height	mm	888	5			
Dry weight	kg	542				
Total weight	kg	599				
	Type Number of cylinders BorexStroke Total displacement Rated output Battery Fuel Fuel tank capacity Lubricating oil capac Cooling water capac Length Width Height Dry weight	Type Number of cylinders BorexStroke mm Total displacement L Rated output kW/min-1 Battery Fuel Fuel tank capacity L Lubricating oil capacity L Length mm Width mm Height mm Dry weight kg	Type Water-cooled of Number of cylinders 4 BorexStroke mm 78 x 3 Total displacement L 1.48 Rated output kW/min-1 24.6/3000 Battery 80D2 Fuel DIESEL FUEL AS Fuel tank capacity L 56 Lubricating oil capacity L 6.0 (Oil pan 5.8L- Cooling water capacity L 4.85 (Reserve transported to the cooling transporte			

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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