

DIESEL ENGINE-DRIVEN DC WELDER/AC GENERATOR

DLW-500ISW SmartStick



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!



Finish welding.

STOP



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



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

START



The engine welder will restart automatically.



Resume welding works.

Innovative Smart stick technology will bring you awesome benefits!

1 UP the fuel efficiency

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

Comparison of uptime

DLW-500ISW

Our conventional model DCW-480ESW



Comparison of fuel cost



DLW-500ISW

Our conventional model DCW-480ESW

2 SAVE the maintenance cost

Less engine running hours = periodic replacements parts life will be longer.
And extend the life-span of welding machine too.

3 ECO friendly products

Shutting down the engine automatically while no operation = Save the limited valuable resource & Reduce the exhaust gas.

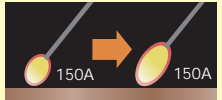


Further more features

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!

Constant current characteristic mode



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

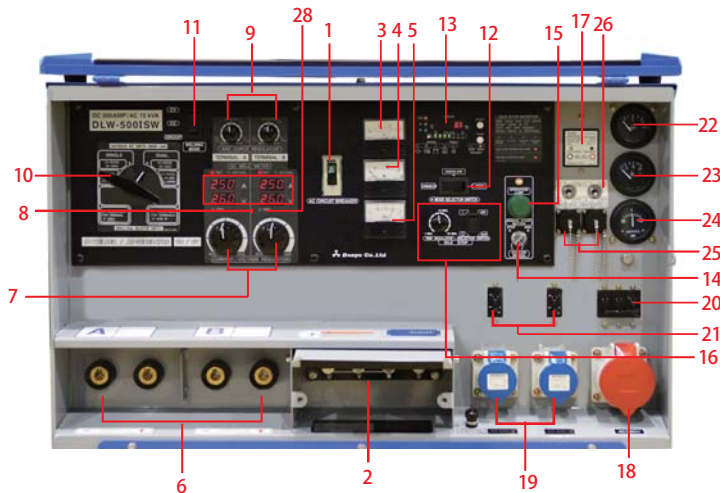
Drooping characteristic mode



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

SAVE the fuel & maintenance cost.

The sensor 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 (DC Voltmeter, DC Ammeter)
- 9.Arc Force Regulator
- 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 Regulator
17. Earth Leakage Relay

OPTION

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

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 Bonnet)
- 28.VRD Lamp

SPECIFICATION TABLE

SPEC./MODEL			DLW-500ISW												
Frequency		Hz	50					60							
DC WELDING OUTPUT	Rated output		kW		CC:17.1/CV:16.4					CC:18.8/CV:18.2					
	Rated current		A		450					480					
	Rated voltage		V		CC:38.0/CV:36.5					CC:39.2/CV:38.0					
	Single	Current Range	A		CC:60~480					CC:60~500					
		Voltage Range	V		CV:14~37					CV:14~40					
	Dual	Current Range	A		CC:30~240					CC:30~250					
		Voltage Range	V		CV:14~29					CV:14~29					
Rated Speed		min ⁻¹		3000					3600						
Duty Cycle		%		60											
AC POWER OUTPUT	Three Phase	Rated output		kVA		15									
		Rated voltage		V		200	380	400	415	220	240	380	415	440	
		Rated current		A		43.3	22.8	21.7	20.9	39.4	36.1	22.8	20.9	19.7	
		No. of Phase		3-Phase 4wire											
		Power Factor		0.8 (Lagging)											
		Excitation		Brushless type (with AVR)											
		No. of poles		2											
		Insulation		Class F											

ENGINE	Maker/Model	KUBOTA V1505-K3B	
	Type	Water-cooled diesel engine	
	Number of cylinders	4	
	BorexStroke	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 ASTM NO.2 or eq.	
	Fuel tank capacity	L	56
	Lubricating oil capacity	L	6.0 (Oil pan 5.8L+Oil filter 0.2L)
SET	Cooling water capacity	L	4.85 (Reserve tank included)
	Length	mm	1550
	Width	mm	800
	Height	mm	885
	Dry weight	kg	537
	Total weight	kg	599

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

The specifications given herein are subject to change without notice.

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