Control Panel

DAW-180SS

DLW-300LS

DLW-320LS2

DLW-300LSW2

DLW-400LSW

DCW-480ESW

DLW-500ISW

DAW-500S

DAW-500SS

*The actual control panel may differ from the above photos depending on the options.

Options

	Related Welding and AC work						Security	Measures Against Salt Damage				Easy to Move		
	Remote Controller (30m)	Extension Cable for remote control (30m)	Spark Arrestor(built-in type)	Voltage Reduction Device (VRD)	Earth Leakage Relay or Earth Leakage AC circuit Breaker	Receptacle	Lockable Fuel Tank Cap	Alternator with Salt Damage Prevention coating	Salt Resistant Paint	Bonnet Caulking	Stainless Bolt	4-wheel Caster	4-wheel Trolley	2-wheel Trailer
DAW-180SS			–	–	●	◉	–	●	●	●	●	◉	–	–
DLW-300LS	●	●	●	◉	●	●	●	●	●	●	●	●		
DLW-320LS2	●	●		◉	●	●	●	●	●	●	●	●		
DLW-300LSW2	●	●	●	◉	●	●	●	●	●	●	●	●		●
DLW-400LSW	●	●	●	◉	●	●	●	●	●	●	●	●		●
DCW-480ESW	●	●	●	●	●	●	●	●	●	●	●	–		●
DLW-500ISW	●	●	●	●	◉	◉	●	●	●	●	●	–	●	●
DAW-500S	●	●		–	●	●	●	●	●	●	●	–	●	●
DAW-500SS	●	●		–	●	●	●	●	●	●	●	–	●	●

◉ : Standard equipment ● : Option – : Not Available
*Cold District Specification is available.
*DCW-480ESW, DLW-500ISW, DAW-500S have some other options. Please refer to each catalog.
*For other options, please feel free to ask your Denyo dealer.

Lockable Fuel Tank Cap

Spark Arrestor

Remote Controller(30m)

Earth Leakage Relay

4-Wheel Caster

2-Wheel Trailer

4-Wheel Trolley

Denyo® The Denyo trademark is widely recognized as a brand, and is a registered trademark in 93 countries and 8 regions.

ISO 9001:2015
ISO 14001:2015
Certified

The specifications given herein are subject to change without notice.

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Denyo Co.,Ltd.
Head office:2-8-5,Nihonbashi-horidomecho,Chuo-ku,Tokyo 103-8566,Japan
Tel:+81-3-6861-0055 Fax:+81-3-6861-1188
www.denyo.co.jp/english/

The power to go beyond.
Denyo

Diesel Engine-Driven Welders

Diesel Engine-Driven Welders
Line up

Item		DAW-180SS	DLW-300LS	DLW-320LS2	DLW-300LSW2	DLW-400LSW	DCW-480ESW	DLW-500ISW		DAW-500S	DAW-500SS
DC Welding Power											
Rated Output	(kW)	4.5	7.90 / 8.74	7.9/8.7	Single 7.9 / 8.74 Dual 3.28 x 2 / 3.58 x 2	Single 12.9 / 13.9 Dual 5.07 x 2 / 5.42 x 2	CC:17.1/CV:16.4	CC:17.1/CV:16.4	CC:18.8/CV:18.2	17.7	17.7
Rated Current	(A)	170	260 / 280		Single 260 / 280 Dual 130 / 140	Single 370 / 390 Dual 185 / 195	Single: 450 Dual: 225	Single: 450 Dual: 225	Single: 480 Dual: 240	460	
Rated Voltage	(V)	26.8	30.4 / 31.2		Single 30.4 / 31.2 Dual 25.2 / 25.6	Single 34.8 / 35.6 Dual 27.4 / 27.8	(Single) CC: 38.0 / CV: 36.5 (Dual) CC: 29.0 / CV: 25.3	(Single) CC: 38.0 / CV: 36.5 (Dual) CC: 29.0 / CV: 25.3	(Single) CC: 39.2 / CV: 38.0 (Dual) CC: 29.6 / 26.0	38.4	
Welding Current Range	(A)	30 - 180	30 - 280 / 30 - 300	30 – 300 / 30 - 320	Single 60-280 / 60-300 Dual 30-150 / 30-160	Single 60-380 / 60-400 Dual 30-190 / 30-200	Single CC:60-480 Dual CC:30-240	Single CC:60 - 480 Dual CC:30 - 240	Single CC:60 - 500 Dual CC:30 - 250	40 - 500	
Welding Voltage Range	(V)	–	–	–	–	–	Single CV:14 - 37 Dual CV:14 - 37	Single CV:14 - 37 Dual CV:14 - 29	Single CV:14 - 40 Dual CV:14 - 29	–	–
Rated duty cycle	(%)	50	100		100		60			75	60
Applicable electrode	(mm)	2.0 - 4.0	2.0 – 6.0		Single 2.0 - 6.0 Dual 2.0 - 3.2	Single 2.0 - 8.0 Dual 2.0 – 4.0	Single 2.0 - 8.0 Dual 2.0 – 5.0	Single 2.0 - 8.0 Dual 2.0 – 5.0		2.0 - 8.0	
Generator Output											
Frequency	(Hz)	50 / 60	50 / 60		50 / 60		50	50	60	50 / 60	
Rated Output	(kVA)	3.0	10.4 / 11.4	10.7 / 11.8	10.4 / 11.4	15.0				3.0	
Rated Voltage*1	(V)	220(100-240)	380(200-240 or 380-440)		380(200-240 or 380-440)		380(200-240 or 380-440)			220(100-240)	
No. of Phase		1-Phase, 2wire	3-Phase, 4wire		3-Phase, 4wire					1-Phase, 2wire	
Power Factor		1.0	0.8 (Lagging)		0.8 (Lagging)					1.0	
Diesel Engine											
Model		Kubota Z402	Yanmar 3-3TNM68G	Kubota D902-K3A	Kubota D902-K3A	Kubota D1105-K3B	Kubota V1505	Kubota V1505-K3B		Kubota D1703	Kubota D1703-KA
Type		4-cycle, vertical, water-cooled with radiator			4-cycle, vertical, water-cooled with radiator					4-cycle, vertical, water-cooled with radiator	
Rated Output	(kW)	7.28	12.5 / 15.0	14.9 / 17.8	14.9 / 17.8	17.8 / 20.7	25.2	24.6/27.1		25.4	
Rated Speed	(rpm)	3600	3000 / 3600		3000/3600		3000	3000/3600		2800	
Displacement	(L)	0.4	0.784	0.898	0.898	1.123	1.498	1.498		1.647	
Fuel		ASTM No.2 diesel fuel or equivalent			ASTM No.2 diesel fuel or equivalent					ASTM No.2 diesel fuel or equivalent	
Fuel consumption*2	(L/h)	1.32	1.96/2.34	2.18 / 2.56	2.14 / 2.49	3.14 / 3.69	3.26	3.45/3.69		5.2	5.0
Fuel Tank Capacity	(L)	15	36		36	42	45	56		45	
Battery×Quantity		38B20R×1	55B24Lx1		55B24L x 1		80D26R x 1	80D26R x 1		75D31R×1	95D31R×1
Dimensions/Weight											
Length×Width×Height	(mm)	990×590×750	1410×560×770	1410×680×760	1410 x 560 x 770	1520 x 700 x 770	1540 x 720 x 885	1550 x 800 x 885		1260 x 800 x 870	1420 x 800 x 900
Dry Weight	(kg)	181	379	386	375	471	500	537		435	505
Noise											
7mdB	(A)*3	64	63 / 65	64 / 66	66 / 68	64 / 68	68	66/70		71	65

*1 ( ) indicates options *2 The fuel consumptions herein are measured under the condition that welding load is a rated value and the duty cycle is fixed at 50%. *3 The noise levels herein stated are the averaged value of the measured values of four directions of 7 meters length under non-loaded condition.

Features

	DAW-180SS	DLW-300LS	DLW-320LS2	DLW-300LSW2	DLW-400LSW	DCW-480ESW	DLW-500ISW		DAW-500S	DAW-500SS
Welding Characteristics	CC	Welding Mode Selector switch: DROOP/CC		Welding Mode Selector switch: DROOP/CC		CC / CV	Welding Mode Selector switch: DROOP/CC/CV		CC	
	–	Arc Force Regulator		Arc Force Regulator					Arc Force Regulator	
Improves Work Efficiency	–	–	–	Dual Operator Welding					–	–
	Inverter	AVR		AVR					Inverter	
Fuel Reduction	SLOW DOWN	e-mode(3 Position)		e-mode(3 Position)		SLOW DOWN	e-mode(3 Position)		SLOW DOWN	
	–	–	SmartStick	–	–	e-mode(2 Position)	SmartStick		–	–
Safety Device	–	Non-stick welding function		Non-stick welding function		–	Non-stick welding function		–	–
	–	Voltage Reductoin Device (VRD)		Voltage Reductoin Device (VRD)					–	–

& Personalized Welding Operation

Change " Welding mode selector switch"
to DROOP/CC/CV to get suitable welding conditions.

DROOP (Drooping characteristic):
For stick welding and if you want to change the conditions by the arc length.

CC (Constant Current characteristic):
For stick welding and if you want to do stable welding.

CV (Constant Voltage characteristic):
For semi-automatic welding. (Wire Feeder)

DROOP(Drooping characteristic)
When the arc length becomes long and thus the voltage rises, the current decreases.

CC(Constant current characteristic)
Even when the arc length becomes long and thus the voltage rises, the current remains same.

Adjust " Arc Force Regulator"
SOFT, HARD or STANDARD" .

SOFT:
Pipe welding and welding in all types of positions.
Able to get the end result looks more manicured because of the less spatter.

HARD:
Overlay welding, Underwater welding, Arc air gouging.
Makes arc start easier.
(Prevent the electrode form getting stuck on the base material.)

STANDARD:
Fillet welding. If you are ever in doubt, choose "STANDARD" .

Dual Operator Welding

Denyo engine driven welders can be used for welding by two operators at the same time.
This helps reduce purchasing costs for welding machines and contributes significantly to work efficiency improvements.

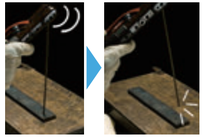
AVR& Inverter Can also be used as generators

Able to do double-duty at all kinds of work sites.
Denyo Engine Welders can provide high quality electricity.
It can be used for the power source for the precision machinery such as computer.

& SAFE and SECURE

"Non-stick welding function" can improve work efficiency.

Easy to remove the electrode from the base metal even if the short-circuit occurs and the electrode sticks to the base metal.
Not only that, it can prevent accidents if the short-circuit occurs while operators are away from at site.



"Voltage Reductoin Device (VRD)" .

Reduce the risks from incidental disasters of electrical accidents. So workers can work even working in high places or in high humidity with relief.

Reducing CO_2 emission and Fuel consmption

SLOW DOWN

e-mode

SMART STICK

Contribute to the environmental preservation and SAVE your maintenance cost.
Using Denyo eco functions, max of $1,500/year can be saved!

SLOWDOWN[OR IDLECONTROL]
Operation is at high speed during welding or when connected to an AC load, and at low speed with no load.

e-mode (2 position):
Engine rpm is changed to high or 2200min⁻¹ depending on the welding current.

e-mode (3 position):
Automatically adjust the engine rpm based on welding current.

Smart Stick :
Automatically, engine shuts down while no operation after 1 to 30minutes that users set, and restart the engine by tapping the base material with the electrode.

Finish Welding.
The engine auto-matically stops within 1 to 30 minutes after welding ceases.

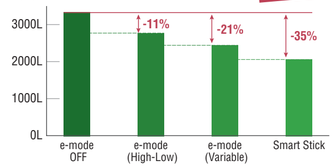
When restarting work, tapping the base metal with the electrode.

The engine welder will restart automatically.
Then resume welding works.

ANNUAL FUEL CONSUMPTION

<Sample>
MODEL: DLW-500ISW
When you weld at the Frequency of 50Hz Welding Power at 50%(225A)
Duty cycle at 60%

Smart Stick Reduces Fuel Consumption by up to US $1,500 yearly!



*Hours used: 4h/day (240day/year)
Diesel:Average price globally @ February 2022
(cite:Global Petrol Prices.com)
*The above figures are not guaranteed value and may vary depending on conditions of use.