Power source technology for the future



Diesel Engine-Driven Welders



Diesel Engine-	Driven	DAW-180SS	DLW-300LS	DLW-320LS2			
Welders							
Line up		DAW-18055	TA AL MANY	A STATE OF STATE			
			X DE				
		Million and and a second					
ltem							
DC Welding Power							
Rated Output	(kW)	4.5	7.90 / 8.74	7.9/8.7			
Rated Current	(A)	170	260 /	/ 280			
Rated Voltage	(V)	26.8	30.4 /	/ 31.2			
Welding Current Range	(A)	30 - 180	30 - 280 / 30 - 300	30 – 300 / 30 - 320			
Welding Voltage Range	(V)	-	_	-			
Rated duty cycle	(%)	50	100				
Applicable electrode	(mm)	2.0 - 4.0	2.0 -	- 6.0			
Generator Output							
Frequency	(Hz)	50 / 60	50 /	/ 60			
Rated Output	(kVA)	3.0	10.4 / 11.4	10.7 / 11.8			
Rated Voltage*1 (V)		220(100-240)	380(200-240				
No. of Phase		1-Phase, 2wire	3-Phase	,			
Power Factor		1.0	0.8 (La				
Diesel Engine				33 0,			
Model		Kubota Z402	Yanmar 3-3TNM68G	Kubota D902-K3A			
Туре			le, vertical, water-cooled with ra				
Rated Output	(kW)	7.28	12.5 / 15.0	14.9 / 17.8			
Rated Speed	(rpm)	3600	3000 /				
Displacement	(L)	0.4	0.784	0.898			
Fuel		AS	STM No.2 diesel fuel or equivale	ient			
Fuel consumption*2	(L/h)	1.32	1.96/2.34	2.18 / 2.56			
Fuel Tank Capacity	(L)	15	30	,6			
Battery×Quantity		38B20R×1	55B24	24L×1			
Dimensions/Weight							
Length×Width×Height	(mm)	990×590×750	1410×560×770	1410×680×760			
Dry Weight	(kg)	181	379	386			
Noise				·			
7mdB	(A)*3	64	63 / 65	64 / 66			
*1 () indicates options *2 The fuel consu	. ,						
Features							
		CC	Welding Mode Sele	ctor switch: DROOP/CC			
Welding Characteristics							

Welding Characteristics	CC	Welding Mode Selector switch: DROOP/CC			
	—	🔚 Arc Force Regulator			
Improves Work Efficiency	-	_	_		
	💟 Inverter	V AVR			
Fuel Reduction	🔚 SLOW DOWN	🚱 e-mode(3 Position)			
	—	_	Smart Stick		
Safety Device	-	Non-stick welding function			
	—	媑 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 wolding and if you want to if

For stick welding and if you want to do stable welding.

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



DR00P(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".



Pipe welding and welding in all types of positions.

Able to get the end result looks more manicured because of the less spatter.

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" .

DLW-300LSW2	DLW-400LSW	DCW-480ESW	DLW-500ISW

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						
Single 260 / 280 Single 370 / 390 Dual 130 / 140 Dual 185 / 195		Single: 450 Dual: 225	Single: 450 Dual: 225	Single: 480 Dual: 240						
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						
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						
-	-	Single CV:14 - 37 Dual CV:14 - 37	Single CV:14 - 37 Dual CV:14 - 29	Single CV:14 - 40 Dual CV:14 - 29						
100 60										
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							
50 / 60 50 60										
10.4 / 11.4 15.0										
380(200-240	or 380-440)		380(200-240 or 380-440)							
		3-Phase, 4wire								
		0.8 (Lagging)								
Kubota D902-K3A	Kubota D1105-K3B	Kubota V1505	Kubota V1505-K3B							
4-cycle, vertical, water-cooled with radiator										
14.9 / 17.8 17.8 / 20.7 25.2 24.6/27.1										
3000/	/3600	3000	3000/3600							
0.898	1.123	1.4	98							
	AS	TM No.2 diesel fuel or equival	ent							

55B2	4L x 1	80D26R x 1	80D26R x 1						
1410 x 560 x 770	1520 x 700 x 770	1540 x 720 x 885	1550 x 800 x 885						
375 471		500	537						
66 / 68	64 / 68	68	66/70						

3.26

45

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

3.14 / 3.69

42

🔝 Welding Mode Select	or switch: DROOP/CC	CC / CV	Welding Mode Selector switch: DROOP/CC/CV					
🔚 Arc Force Regulator								
🔠 Dual Operator Welding								
V AVR								
🛞 e-mode(3	Position)	🔚 SLOW DOWN	🚱 e-mode(3 Position)					
_	_	🚱 e-mode(2 Position)	SmartStick,					
🔁 Non-stick w	elding function	-	🔁 Non-stick welding function					
Voltage Reductoin Device (VRD)								

Dual Operator Welding

2.14 / 2.49

36

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.

\mathbf{V} AVR& \mathbf{V} 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.



3.45/3.69

56



DAW-500S





DAW-500SS

17.7	17.7						
46	50						
38	3.4						
40 -	500						
-	-						
75	60						
2.0	- 8.0						
50 / 60							
3.0							
220(100-240)							
1-Phase, 2wire							
1.	.0						
Kubota D1703	Kubota D1703-KA						
4-cycle, vertical, wate	er-cooled with radiator						
25.4							
2800							
1.647							
ASTM No.2 diese	fuel or equivalent						
5.2	5.0						
4	5						

75D31R×1	95D31R×1				
1260 x 800 x 870	1420 x 800 x 900				
435	505				
71	65				

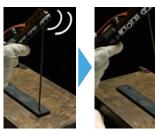
CC									
🔚 Arc Force Regulator									
💟 Inverter									
🔚 SLOW DOWN									

🔜 & 🗖 SAFE and SECURE

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

Fasy 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.









Reducing CO₂ emission and **Fuel consmption**

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.

SmartStick, 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.



The engine auto-matically

after welding ceases.

Duty cycle at 60%

stops within 1 to 30 minutes

Finish Welding.



When restarting work, tapping the base metal with the



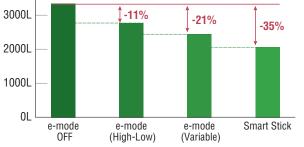
The engine welder will restart automatically. Then resume welding works.

ANNUAL FUEL CONSUMPTION

electrode.

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

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.

"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.





Control Panel

DAW-180SS



DLW-320LS2



DLW-400LSW



DCW-480ESW



DLW-500ISW



DAW-500S



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

DAW-500SS



Options

	Related Welding and AC work						Security	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			_	_		۲	—						_	_	
DLW-300LS				۲											
DLW-320LS2				۲											
DLW-300LSW2				۲											
DLW-400LSW				۲											
DCW-480ESW												_			
DLW-500ISW					۲	۲						_			
DAW-500S				_								_			
DAW-500SS				_								_			

● : Standard equipment ● : Option - : Not Available

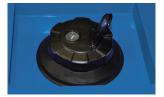
*Cold District Specification is available.

*DCW-480ESW, DLW-500ISW, DAW-500S have some other options. Please refer to each catalog.

Spark Arrestor

*For other options, please feel free to ask your Denyo dealer.

Lockable Fuel Tank Cap



4-Wheel Caster



Denyo[®]

2-Wheel Trailer

The specifications given herein are subject to change without notice.



Remote Controller(30m)



4-Wheel Trolley



Earth Leakage Relay



intertek

ISO 9001:2015 ISO 14001:2015 Certified



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The Denyo trademark is widely recognized as a brand, and is

a registered trademark in 93 countries and 8 regions.