

Engine-Driven Welders

Praised for their stable welding performance with little reduction in voltage as a result of their durability and drooping characteristic, Denyo's engine-driven welders are found in use in countries throughout the world. They can even be used as high-performance engine-driven generators. Equipped with idle-control systems that reduce fuel consumption, Denyo's welders provide excellent economic efficiency.

DAW-300SSEK



DLW-300ESEW



Exceptional Welding Performance

- A built-in high-performance generator ensures a stable supply of welding current. This enables outstanding welding performance with an extremely long arc and little arc interruption with the welding electrode.
- The Arc Force Regulator allows users to adjust the short cut current according to the application (excluding the DAW-300SSEK).

"Soft": Enables smooth vertical and pipe welding.
"Hard": Enables a smooth arc start.

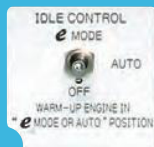


Economic Efficiency

Fuel consumption can be reduced with e-mode, which controls engine revolutions, making them more efficient.

DAW-300SSEK

DAW-300SSEK is a non-step automatic control with a microcomputer that assures optimum engine revolutions under any load conditions, with slow-down (low-speed) revolutions.



DLW-300ESEW, 400ESEW

When welding work starts or the equipped AC Generator starts to operate, the welder works at high-speed mode, and when the unloaded condition of current is applied, the machine operates at low-speed mode.

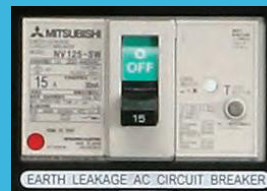


Environmentally Friendly

- Equipped with environmentally friendly clean engines, Denyo's welders are compliant with the EU's exhaust gas regulations (Stage II).

Safety

- Equipped with an emergency stop button
- Equipped with an earth leakage relay
- A warning lamp notifies users when an abnormality has occurred (drop in oil pressure, rise in water temperature, poor battery charge).



Maintainability

- Denyo's welders provide "one-side maintenance" in which daily checks and maintenance can be performed just by opening a single door.



MODEL		DAW-300SSEK		DLW-300ESEW		DLW-400ESEW			
		Full-range Operation		e-mode Operation		Full-range Operation		e-mode Operation	
DC Welding Output									
Rated Output		kW	8.74	7.9	4.22	10.96	7.1		
Rated Current	Single	A	280	260	160	330	240		
	Dual	A	-	130	80	165	120		
Rated Voltage	Single	V	31.2	30.4	26.4	33.2	29.6		
	Dual	V	-	25.2	23.2	26.6	24.8		
Current Range	Single	A	30 ~ 300 (2200 ~ 3000min ⁻¹)	60 ~ 280	60 ~ 160	60 ~ 380	60 ~ 240		
	Dual	A	-	30 ~ 140	30 ~ 80	30 ~ 190	30 ~ 120		
Rated Speed	Single	min ⁻¹	3000	3000	2200	3000	2200		
	Dual	min ⁻¹	-	3000	2200	3000	2200		
Rated Duty Cycle	Single	%	50	50	100	60	100		
	Dual	%	-	50	100	60	100		
Applicable Electrode	Single	mm	2.0 ~ 6.0	2.0 ~ 6.0	2.0 ~ 4.0	2.0 ~ 8.0	2.0 ~ 5.0		
	Dual	mm	-	2.0 ~ 3.2	2.0 ~ 2.6	2.0 ~ 4.0	2.0 ~ 3.2		
3-Phase AC Power Output									
Rated Output		kVA	-	9.9	13.2				
Rated Voltage		V	-	380	380				
Rated Current		A	-	15	20				
Rated Speed		min ⁻¹	-	3000					
Frequency		Hz	-	50					
Power Factor		-	-	0.8					
Rating		-	-	Continuous					
1-Phase AC Power Output									
Rated Output		kVA	3	3.3 × 2					
Rated Voltage		V	220	220					
Rated Current		A	13.6	15 × 2					
Frequency		Hz		50					
Power Factor				1					
Rating				Continuous					
Engine (4-cycle, water-cooled diesel engine)									
Model		Kubota D722		Kubota D905		Kubota D1005			
Type		Vertical, 4-cycle, water-cooled diesel engine, swirl chamber type							
Rated Output		kW	11.7	14.7	16.5				
Rated Speed		min ⁻¹	3000						
No. of Cylinders-Bore × Stroke		mm	3-67 × 68	3-72 × 73.6	3-76 × 73.6				
Displacement		L	0.719	0.898	1.001				
Fuel		ASTM No.2 diesel fuel or equivalent							
Fuel Tank Capacity		L	19	36	42				
Fuel Consumption			2.1	2.33	1.46	3.24	2.18		
Lube Oil Capacity		L	3.76	5.1	5.1				
Coolant Capacity		L	3.8	4.7	4.7				
Battery × Quantity		12V-45Ah × 1 (55B24L)							
Dimensions, Weight and Sound Power Level									
Dimensions		Length × Width × Height	mm	1270 × 680 × 740	1410 × 680 × 770	1520 × 720 × 770			
Dry Weight		kg	310	415	470				
Sound Power Level		LWA dB	90	89	92				

- Rated welding load at rated duty cycle. e-mode data is calculated by rated duty cycle at full-range operation.
- Sound level reflects 100% rated load and is calculated by averaging the measurements at six points, each 4 meters from the Source center.