

# DENYO SOUNDPROOF TYPE DIESEL ENGINE WELDER





**DLW**Series



## **DAW/TLW**Series

Denyo Co., Ltd.

## DAW/TLW SERIES



Lightweight and compact design with water-cooled 2-cylinder diesel engine.



### CANCERO DAW-300LS

Non-step automatic control with a microcomputer assures optimum engine revolutions under any load conditions, with slow-down (low-speed) revolutions kept under no load. The fuel cost can thus be reduced, ultra-low fuel consumption achieved, and ultralow noise level maintained under any working

achieved, and ultralew noise level maintained under any working conditions.

### The best arc-welding characteristics

The e-AVC300's microcomputer-aided welding control assures quiet, optimum operation that will accommodate any kind of weiding rod.



### **TLW-230LS**

Lightweight and compact design with water-cooled 2-cylinder dieset engine.

## All the products listed in this brochure are provided with the following functions.

### **Clean Engine**

The engine equipped with the Closed Breathing System which keeps the blow-by gas in the machine, and the alminum radiator which does not cause lead pollution is categoried as a construction machine that satisfies the emission gas regulation stage 3 (DAW-300LS/DLW-300LS/DLW-300LSW/TLW-230LS), stage 2 (DLW-400ESW), enforced by the Ministry of Land, Infrastracture and Transport.(except for DAW-180SS)

### Slowdown device reduces noises and saves

The Slowdown unit automatically lowers engine speed during no-load, reducing noise and increasing fuel efficiency.



#### 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 by removing the front cover.



### Switch key operation restarts the engine with air vented automatically

The machine is equipped with an automatic airventing unit that eliminates air by turning a switch key when restarting the engine after fueling.

### Alternator requires maintenace free

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

### Various protective systems assuring safety

 This machine can automatically cut the power off when over-loading DC output. (except for TLW-230LS)

Protect over-loading AC output by shutting down its circuit breaker.

• Automatically stop the engine with the warning indicators, at low lub oil pressure, high water temperature, and insufficient charging of the battery.

 Prevent from electrial leaking with its relay. (optional for all the products)

### **Options:**

Four-wheel kit(except for DAW-180SS), exhaust pipe attach- mont, remote controller, mesures against salt damage.







Four-wheel kit

## DAW/TLW SERIES



Lightweight and compact design with water-cooled 2-cylinder dissel engine.



### CAVC 300 DAW-300LS

Non-step automatic control with a microcomputer assures optimum engine revolutions under any load conditions, with slow-down (low-speed) revolutions kept under no load. The fuel cost can thus be reduced, ultra low fuel consumption achieved, and ultralow noise level maintained under any working conditions.

#### The best arc-welding characteristics

The e-AVC300's microcomputer-aided welding control assures quiet, optimum operation that will accommodate any kind of welding rod.



### TLW-230LS

Lightweight and compact design with water-cooled 2-cylinder diesel engine.

## All the products listed in this brochure are provided with the following functions.

### **Clean Engine**

The engine equipped with the Closed Breathing System which keeps the blow-by gas in the machine, and the alminum radiator which does not cause lead pollution is categoried as a construction machine that satisfies the emission gas regulation stage 3 (DAW-300LS/DLW-300LS/DLW-300LSW/TLW-230LS), stage 2 (DLW-400ESW), enforced by the Ministry of Land, Infrastructure and Transport, (except for DAW-180SS)

#### Slowdown device reduces noises and saves

The Slowdown unit automatically lowers engine speed during no-load, reducing noise and increasing fuel efficiency.



### 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 by removing the front cover.



### Switch key operation restarts the engine with air vented automatically

The machine is equipped with an automatic airventing unit that eliminates air by turning a switch key when restarting the engine after fueling.

#### Alternator requires maintenace free

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

#### Various protective systems assuring safety

This machine can automatically cut the power off when over-loading DC output. (except for TLW-230LS)

Protect over-loading AC output by shutting down its circuit breaker.

Automatically stop the engine with the warning indicators, at low lub oil pressure, high water temperature, and insufficient charging of the battery.

 Prevent from electrial leaking with its relay. (optional for all the products)

### **Options:**

Four-wheel kit(except for DAW-180SS), exhaust pipe attach- ment, remote controller, mesures against salt damage.





Four-wheel kit

### SPECIFICATION TABLE

Item Model	DAW-180SS	DAW-300LS	TLW-230LS	DLW-300LS	DLW-300LSW	e-mode	DLW-400ESW	e-mode	
DC Welding Power									
Rated Output(kW)	4.5	8.7	5.6	7.90/8.74	Single 7.90/8.74 Dual 3.28×2/3.58×2	4.22 1.86×2	Single 10.96/11.90 Dual 4.39×2/4.73×2	7.10 2.98×2	
Rated Current(A)	170	280	200	260/280	Single 260/280 Dual 130/140	160 80	Single 330/350 Dual 165/175	240 120	
Rated Voltage (V)	26.8	31.2	28	30.4/31.2	Single 30.4/31.2 Dual 25.2/25.6	26.4 23.2	Single 33.2/34.0 Dual 26.6/27.0	29.6 24.8	
Welding Current Range(A)	30~180	30~-300 (2200 ~- 3000 min <sup>1</sup> )	50~230	30~280/30~300	Single 60~280/60~300 Dual 30~140/30~150	60~160 30~80	Single 60~-380/60~-400 Dual 30~-190/30~-200	60~24 30~12	
Rated duty cycle (%)	50			100	50	100	60	100	
Applicable electrode(mm)	2.0~4.0	2.0~6.0	2.65.0	2.0~-6.0	Single 2.6~6.0 Dual 2.0~3.2	2.0~4.0 2.0~2.6	Single 2.0~-8.0 Dual 2.0~-4.0	2.0~5.	
AC Power Source									
Frequency(Hz)				50/6	50/60				
Rated Output (kVA)	3.0		5.0/5.5	10.4/11.4	10.0		15.0		
Rated Voltage(V)	100/110/120/200/220/230/240			200/220/230/240 or 380-~440					
No.of Phase	1-Phase, 2wire			3-Phase ,4wire					
Power Factor	1.0			0.8 (Lagging)					
Diesel Engine					Ľ		N		
Model	Kubota Z402	Kubota D722-K3A	Kubota Z482-K3A	Yanmar 3-3TNM68G	Kubota D905-K	3A	Kubota D1005-F	KA	
Туре			4	-cycle,vertical,wate	ertical,water cooled with radiator				
Rated Output(kW)	7.28	11.7	9.6	12.5/15.0	14.7/17.3		16.5/19.1		
Rated Speed (min <sup>-1</sup> )	3600	3000	3600		3000/3600				
Displacement (L)	0.4	0.719	0.479	0.764	0.898		1.001		
Fuel	ASTM No.2 diesel fuel or equivalent								
Fuel consumption (L/h) ***	1.31	2.1	1.6	1.96/2.34	2.33/2.69	1.46	3.24/3.76	2.18	
Fuel Tank Capacity(L)	15	19	ek)	36		42			
Battery x Quantity	36B20L×1	55B24L×1	36B20L×1	1000	X				
Dimensions/Weight					·				
${\tt Length} {\times} {\tt Width} {\times} {\tt Height}(mm)$	990×590×750 1270×680×740 1		1220×610×720	1410×560×770	1410×680×770	2C	1520×720×770		
Dry Weight(kg)	181	300	285	379	405		460		
Noise		2	w %					-	
7mdB(A) *2	65	64	60/63	63/65	64/67	58	63/66	59	

The fact consumptions herein are measured under the condition that wolding load is a rated value and the outy cycle is fixed at 50%.
The holse levels herein stated are the averaged value of the measured values of four directions of 7 meters length under non-leaded condition.

\* When a welding machine and a generator are used simultaneously, please use them according to the instructions slipulated in the Operation Manual.



The specifications, appearance and/or coloring of the products may be subject to change without notice. Due to printing conditions of this brochure, coloring of the products may not be same as printed herein. Storage, transportation and usage of the products shall, at any time, be carried out in accordance with the Operation Manual.

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



103-8566, Japan Tel:+81-3-6861-1111 Fax:+81-3-6861-1181 http://www.denyo.co.jp

Printed in Japan (T)