

DENYO SOUNDPROOF TYPE

DIESEL ENGINE WELDER





DLWSeries



DAW/TLWSeries

Denyo Co., Ltd.

DAW/TLW SERIES



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



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, 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.

ON OFF

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

DAW/TLW SERIES



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



PAVC300 DAW-300LS

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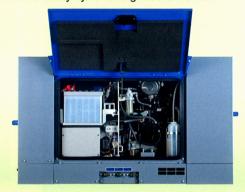
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O OFF (DLE CONTROL) Only at the full-range

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- 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	DAW-180SS	DAW-300LS	TLW-230LS	DLW-300LS	DLW-300LSW	e-mode	DLW-400ESW	e-mod
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×
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(2200~3000min ⁻¹)	50~230	30~280/30~300	Single 60~280/60~300 Dual 30~140/30~150	60~160 30~80		60~24 30~12
Rated duty cycle(%)	50			100	50	100	60	100
Applicable electrode (mm)	2.0~4.0	2.0~6.0	2.6~5.0	2.0~6.0	Single 2.6~6.0 Dual 2.0~3.2	2.0~4.0 2.0~2.6		2.0~5 2.0~3
AC Power Source								
Frequency(Hz)				50/6	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								
Model	Kubota Z402	Kubota D722-K3A	Kubota Z482-K3A	Yanmar 3-3TNM68G	Kubota D905-K3A		Kubota D1005-KA	
Туре	4-cycle,vertical,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-1)	3600 3000 3600			3000/3600				
Displacement(L)	0.4	0.719	0.479	0.784	0.898		1.001	
Fuel	ASTM No.2 diesel fuel or equivalent							
Fuel consumption (L/h) *1	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			36			42	
Battery x Quantity	36B20L×1	55B24L×1	36B20L×1	55B24L×1				
Dimensions/Weight								
Length×Width×Height(mm)	990×590×750	1270×680×740	1220×610×720	1410×560×770 1410×680×770		1520×720×770		

X1 The fuel consumptions herein are measured under the condition that welding load is a rated value and the duty cycle is fixed at 50%.

300

285

60/63



379

63/65

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 Denyo distributor or to Denyo co.,Ltd.

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405

460

63/66

Dry Weight(kg)

Noise 7mdB(A)*2

^{*2} The noise levels herein stated are the averaged value of the measured values of four directions of 7 meters length under non-loaded condition.

^{*} When a welding machine and a generator are used simultaneously, please use them according to the instructions stipulated in the Operation Manual.