

This CC (constant current) and CV (constant voltage) welder delivers up to 300 amps of DC welding power. Additionally, it provides up to 10.5kW of 120/240 volt AC power.



Full instrumentation is protected by a vandal proof cover. LED display provides clear readout of load characteristics.

DLW300ESA1

- **Low noise level** — produces only 67 dBA.
- **Outstanding arc characteristics** plus the ability to connect machines together for parallel operation.
- **Ultra-clean AC power** — voltage regulation $\pm 1.5\%$.
- **Weld and use AC power at the same time.**
- **Full-panel GFCI protection** that is OSHA and NEC compliant.
- **E-Mode** improves fuel efficiency by allowing the operator to weld with engine at idle speed at up to 160 amps. Reduces operating costs and noise levels.
- **Arc force control** allows the operator to fine tune DC current during low voltage welding conditions and helps prevent electrodes from sticking during short arc length welding.
- **Dependable Tier 4 Kubota diesel engine** is backed by a three-year engine manufacturer's warranty. A standard self-priming fuel system allows quick starting even if the engine is run dry. Automatic idle control is standard for improved fuel economy.
- **Safety shut-downs** are provided for water, oil level and DC thermal overload.
- **Optional trailer** is available for highway towing.

Remote Control

Optional remote control allows operator to adjust amperage up to 100 feet away from the machine. When added, this option allows for two operators to weld simultaneously each with their own remote control.



300 amp welder
10.5kW AC output
Kubota diesel engine
DLW300ESA1

Welding Applications	DLW
SMAW — Shielded Metal Arc Welding	•
FCAW — Flux Core Arc Welding	•
GMAW — Gas Metal Arc Welding	•
GTAW — Gas Tungsten Arc Welding	•
ACAC — Air Carbon Arc Cutting	•



This CC (Constant Current) and CV (Constant Voltage) welder delivers up to 400 amps of operation for one man, or simultaneous two man operation with 200 amps of output per operator. Additionally, it provides up to 14 kW of 120/240 volt AC power.



Full instrumentation is protected by a vandal proof cover. LED display provides clear readout of load characteristics.

DLW400ESA4

- **Low noise level** — produces only 70 dBA.
- **Outstanding arc characteristics** plus the ability to connect machines together for parallel operation.
- **One or Two-man operation.** Independent controls and up to 200 amps for each operator or 400 amps for one operator.
- **Full-panel GFCI protection** that is OSHA and NEC compliant.
- **Dependable Tier 4 Kubota diesel engine** is backed by a three-year engine manufacturer's warranty. A standard self-priming fuel system allows quick starting even if the engine is run dry. Automatic idle control is standard for improved fuel economy.
- **E-Mode** improves fuel efficiency by allowing the operator to weld with the engine at idle speed at up to 240 amps. Greatly reduces operating costs and noise levels.
- **Arc Force Control** allows the operator to fine tune DC current during low voltage welding conditions and helps prevent electrodes from sticking during short arc length welding.
- **Safety shut-downs** are provided for water, oil level and DC thermal overload.
- **Optional trailer** is available for highway towing.

Welding Applications	DLW
SMAW — Shielded Metal Arc Welding	•
FCAW — Flux Core Arc Welding	•
GMAW — Gas Metal Arc Welding	•
GTAW — Gas Tungsten Arc Welding	•
ACAC — Air Carbon Arc Cutting	•

Remote Control

Optional remote control allows operator to adjust amperage up to 100 feet away from the machine. When added, this option allows for two operators to weld simultaneously each with their own remote control.



SmartStick

Innovative SmartStick technology automatically stops the engine if no welding or AC power is used for a preset time (1 minute to 30 minutes). To restore power, the operator needs only to strike the welding stick.

- 400 amp welder
- 14kW AC output
- Kubota diesel engine
- Single and dual operation
- Optional remote controls
- DLW400ESA4**



Specifications

MODEL	GAW135H	BDW180MC	GAW180HEA	SDW225SA1	DLW300ESA1	DLW330X2	DLW400ESA4	DAW500SA4
DC WELDER FEATURES								
DC Rated Voltages (Single Operation)	25.2 (CC)	26.8 (CC)	26.8 (CC)	28(CC)/20(CV)	31.2(CC)/28(CV)	31.2(CC)/28(CV)	34(CC)/31.5(CV)	38(CC)/36.5(CV)
DC Rated Voltages (Dual Operation)	N/A	N/A	N/A	N/A	N/A	26.6 (CC) / 22.3 (CV)	27(CC) / 22.8(CV)	N/A
CV Voltage Ranges, (Single/Dual Operation)	N/A	N/A	N/A	15-28V	14-32V	14-33V/14-28V	14-35V/14-28V	16-40V
DC Current Ranges, amps (Single Operation)	40-135A	30-180A	30-180A	50-225A	30-300A	30-340A	30-400A	50-500A
DC Current Ranges, amps (Dual Operation)	N/A	N/A	N/A	N/A	N/A	30-200Ax2	30-200Ax2	N/A
100% Duty Cycle @ 100%, amps	40% @ 135A	40% @ 120A	50% @ 180A	200A @ 22V	280A @ 31.2V	280A @ 31.2V/ 165A @ 26.6Vx2	350A @ 34V/ 175A @ 27Vx2	350A @ 38V
Constant Voltage — Constant Voltage (CV)	N/A	N/A	N/A	Standard				
Constant Current — Constant Voltage (CC)	SMAW		SMAW, FCAW	SMAW; FCAW; GMAW; GTAW; ACAC				
AC OUTPUT								
Maximum Output — kw AC Single Phase	1.5	N/A	3.0	6.0	10.5	10.5	14	3.0
Frequency	60							
Voltage	120 V	N/A	120 V	120/240 V				120 V
Amperage	12.5	N/A	25.0	50.0 / 25.0	80.0 / 40.0	87.0 / 44.0	116.0 / 58.0	20.0
Voltage Regulation	5%	N/A	5%	3 %	1.5%	1.5%	1.5%	7%
Receptacles (see chart below)	A	N/A	A, C	A, C, F	A, C, E, H	A, C, E, H	A, C, E, H	A, B
ENGINE FEATURES								
Manufacturer / Engine Model	Honda GX200	(5) 12V-12Ah Batteries	Honda GX340	Kubota Z482	Kubota D722	Kubota D902	Kubota D902	Kubota D1803
HP††; RPM	6.5 HP; 3600 RPM	N/A	9.5 HP; 3600 RPM	12.0 HP; 3600 RPM	19.0 HP; 3600 RPM	24.0 HP; 3600 RPM	24.0 HP; 3600 RPM	35.1 HP; 2700 RPM
Fuel Type	Gasoline	N/A	Gasoline	Diesel	Diesel	Diesel	Diesel	Diesel
Fuel Tank Capacity — gal.	1.9	N/A	3.7	6.6	9.5	9.5	11.1	11.9
Fuel Consumption @ Rated Load — gph	0.48	N/A	0.7	0.7	1.1	1.1	1.3	1.3
Starting Method	Recoil with Electric/Battery not included	N/A	Recoil with Electric/Battery not included	Electric with Battery				
GENERAL FEATURES								
Simultaneous Use — AC/DC	No	N/A	Standard					
Noise Level — dBA @ 23 feet	75	N/A	76	63	67	66	70	74
Lifting Bale	No	No	Standard					
External Drains — Oil, Fuel, Water	N/A	N/A	N/A	Standard				
Automatic Safety Shutdowns	Oil Pressure	N/A	Oil Pressure	Oil Pressure; Water Temperature; Thermal Switch DC; Low Battery Charger				
DIMENSIONS AND WEIGHT								
Dimensions — L x W x H in.	22 x 19 x 21	21 x 12 x 18	28 x 22 x 26	45 x 26 x 32	51 x 27 x 33	51 x 27 x 33	61 x 29 x 35	53 x 32 x 45
Dry Weight lbs.	114	129	236	675	849	893	1,028	1,175
OPTIONS								
Trailers	N/A	N/A	N/A	TRLR-10W*; TRLR-MPXF**	TRLR-10W*; TRLR-MPXF**	TRLR-MP; TRLR-MPXF**	TRLR-MP; TRLR-MPXF**	TRLR-MP; TRLR-MPXF**
Wheel Kit	UWKB	Standard	UWKB	WKT225A	N/A	N/A	N/A	N/A
Remote Control	N/A	N/A	N/A	WRKIT225	WRKIT300	WRKIT330	WRKIT400	WRKIT500

*Requires adapter kit. ** TRLR-MPXF has built-in 28 gallon fuel cell

WELDING CABLE ACCESSORIES

Cable Size & Length	Electrode Holder w/Cable	Ground Clamp w/Cable	Current Rating
1/0 Cable, 50 Ft.	10E50	10G50	350Amps @ 60% Duty Cycle
1/0 Cable, 100 Ft.	10E100	10G100	350Amps @ 60% Duty Cycle
1/0 Cable, 150 Ft.	10E150	10G150	350Amps @ 60% Duty Cycle
#2 Cable, 25 Ft.	2E25	2G25	500Amps @ 60% Duty Cycle
#2 Cable, 50 Ft.	2E50	2G50	500Amps @ 60% Duty Cycle

RECEPTABLE IDENTIFICATION CHART



A — NEMA 5-20R 125V duplex 20A w/GFCI



B — NEMA L5-20R 125V 20A twist lock



C — NEMA L5-30R 125V 30A twist lock



D — NEMA L6-20R 250V 20A twist lock



E — NEMA L6-30R 250V 30A twist lock

Match the letter codes in the specification table to the receptacles below.



F — NEMA L14-30R 125/250V 30A twist lock



G — NEMA 7410 250V 20A twist lock



H — CS-6369 125/250VAC 50A twist lock

Welders Warranty: Models rated at 180 amps and below include a **two-year warranty** covering parts and labor.

Models rated at 225 amps and above include a **three-year (or 3,000 hours) warranty** covering parts and labor. Contact Multiquip for complete warranty information.

† All horsepower ratings are supplied by engine manufacturers.

†† The power rating of the Honda engine indicated in this document is the net power output tested on a production engine for the engine model and measured in accordance with SAE J1349 at 3600 rpm. Mass production engines may vary from this value. Actual power output for the engine installed in the final machine will vary depending on numerous factors, including the operating speed of the engine in application, environmental conditions, maintenance and other variables.

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