

WELDERS



**Quiet and Dependable
Welding Performance.**



Multiquip welders deliver premium performance in sizes ranging from 135 amps to 500 amps. Whether you are looking for a gasoline-powered machine for small repairs or a large diesel-powered machine for service truck or industrial applications Multiquip has the best welders in the industry.



135 amp welder
1.5kW AC output



180 amp welder
3kW AC output

GAW135H

- **Permanent magnet alternator design** significantly reduces overall weight compared to other welders in its class.
- **Compact design** fits easily in the box of a service truck or the basket of high reach equipment. At only 114 pounds it's easy to move around the job site.
- **135 Amp DC Welder and 1.5kW 120VAC output** is ideal for hard to reach areas such as rooftops or air conditioner repair. Note: Simultaneous operation not available on this unit.
- **Powered by a Honda GX200** engine with recoil start and standard idle control and low-oil shutdown.
- **Full-panel GFCI protection** that is OSHA and NEC compliant.

GAW180HEA

- **Ultra-clean AC power** — voltage regulation $\pm 3\%$
- **Permanent magnet alternator design** reduces overall weight up to 30% compared to other welders in its class.
- **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.
- **180 Amp DC Welder and 3.0kW 120V AC output** — operator can simultaneously use both features.
- **Powered by a Honda GX340** engine with push-button electric start and recoil start. Idle control and low-oil shutdown are standard.
- **Full-panel GFCI protection** that is OSHA and NEC compliant.



180 amp welder
Battery powered

BDW180MC

- **One-of-a-kind rechargeable battery welder.**
- **Quiet with no exhaust fumes;** great for indoor use.
- **Light weight and compact** — just 129 pounds.
- **Up to 180 Amps of welding power** (True DC power).
- **Digital Control Panel**

BDW180MC Performance Batteries fully charged			
Electrode	Duty cycle	Amps	Rod Consumption
5/32" rod Current range 120 - 180A	20%	170	6 rods
		160	9 rods
		150	12 rods
		140	19 rods
		130	28 rods
		120	49 rods
1/8" rod Current range 80-13A	20%	120	60 rods
		100	100 rods
	40%	120	15 rods
7/64" rod Current range 50-85A	40%	100	25 rods
		80	65 rods
		50	100 rods

Note: Recharging drained batteries to 80% level will take approximately 45-50 minutes.

WELDING APPLICATIONS	GAW135H	GAW180HEA	BDW180MC
SMAW — Shielded Metal Arc Welding	•	•	•
FCAW — Flux Core Arc Welding	•	•	N/A
GMAW — Gas Metal Arc Welding	N/A	•	N/A
GTAW — Gas Tungsten Arc Welding	N/A	N/A	N/A
ACAC — Air Carbon Arc Cutting	N/A	N/A	N/A



SDW225SSA1

As a welder it delivers up to 225 amps of DC welding power in either CC (constant current) or CV (constant voltage) mode. Additionally, it provides up to 6kW of 120/240 volt AC power.

- **Low noise level** — produces only 63 dBA.
- **Outstanding arc characteristics** make it ideal for welding pipe and structural steel.
- **Ultra-clean AC power** — voltage regulation $\pm 2\%$.
- **Full-panel GFCI protection** that is OSHA and NEC compliant.
- **Dependable Tier 4 Kubota diesel engine**, with electric start, 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 and push cart for shop use.



Full instrumentation including controls for both CC and CV welding.



Also available in light tower configuration as model MLT-SDW7



Welding Applications	SDW
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	•

225 amp welder
6kW AC output
 Kubota diesel engine
 Optional remote control
SDW225SSA1

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.

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.



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.

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	•



DLW330X2

- **Low noise level** — produces only 66 dBA.
- **One or Two-man operation.** Independent controls and up to 200 amps for each operator or 340 amps for one operator.
- **E-Mode** improves fuel efficiency by allowing the operator to weld with the engine at idle speed at up to 200 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.
- **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.
- **SmartStick** — this sensor automatically shuts off the engine during periods of no load and restarts it when the operator strikes the welding rod. The variable sensor — adjustable from one to 30 minutes — enables the operator to select the optimum working conditions and reduce fuel consumption.



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

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.



340 amp welder
10.5kW AC output
 Kubota diesel engine
 Single and dual operation
 Optional remote control
DLW330X2

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



This CC (constant current) and CV (constant voltage) welder delivers up to 500 amp of DC welding output. Additionally, it provides up to 3.0kW of 120/240 volt AC power. This unit can be simultaneously used as a welder while supplying AC power for other equipment.

DAW500SA4

- **Low noise level** — produces only 74 dBA.
- **Outstanding arc characteristics** plus the ability to connect machines together for parallel operation.
- **Brushless permanent generator design** for lower maintenance.
- **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.
- **Safety shut-downs** are provided for water, oil level and DC thermal overload.
- **Optional trailer** is available for highway towing.



500 amp welder
3.0kW AC output
Kubota diesel engine
Optional remote controls
DAW500SA4

Welding Applications	DAW
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	•



Full instrumentation includes DC voltmeter and ammeter when either in CC or CV positions.

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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REV 0115