

Big Blue® 600 Pro

**Diesel Engine-Driven
Welder/AC Generator** 

Quick Specs

Heavy Industrial Applications

Heavy construction
Structural steel
Mining maintenance
Maintenance and repair rigs
Pipe welding

Processes

Stick (SMAW)
MIG (GMAW)
Flux-cored (FCAW)
DC TIG (GTAW)
Air carbon arc (CAC-A)
3/8-inch (9.5 mm) carbons
Air plasma cutting and gouging with optional Spectrum models

Output Range DC stick/TIG 20–600 A
DC MIG/FCAW 14–44 V

Generator Output Rated at 104°F (40°C)
3-phase 27,000 watts peak, 20,000 watts continuous
1-phase 15,000 watts peak, 12,000 watts continuous

**Accu-Rated™ – Not Inflated
Generator Power**



Electronic engine display simultaneously displays fuel level, engine hours, coolant temperature, oil pressure, battery volts, and engine rpm. Also tracks oil change intervals and displays engine diagnostics for quick and easy servicing.

Low OCV stick (VRD) reduces the open-circuit voltage to 15 volts when the welding power source is not in use. This feature is now built into the Big Blue 600 Pro for increased operator safety without compromising arc starts.

Infinite arc control allows the arc characteristics to be changed for specific applications in stick, MIG and FCAW.

Auto Remote Sense™ (ARS) detects if a remote control is plugged into the 14-pin receptacle and eliminates confusion of a remote/panel switch.

BUILT TOUGH



Deluxe model shown.



Kubota

Heavy-duty low-speed T4F industrial diesel engine.

The cleanest, greenest diesel power available. Utilizes diesel oxidation catalyst (DOC) technology to keep the air clean with **NO** exhaust aftertreatment maintenance.



The vault — ultimate control board reliability. See page 4.

Thermal overload protection prevents machine damage if the duty cycle is exceeded or airflow is blocked.

Remote oil drain prevents spills and makes servicing easy.

Standard features include digital preset weld meters, automatic idle, 120-volt block heater and automatic glow plugs.



Welder/generator is warranted by Miller for three years, parts and labor.
Engine is warranted separately by engine manufacturer.



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MillerWelds.com



Specifications (Subject to change without notice.)



Weld Mode/ Process	Weld Output Range	Weld Output Rated at 104°F (40°C)	Max. Open-Circuit Voltage	Generator Power Output Rated at 104°F (40°C)***	Dimensions	Weight
CC/DC (Stick/TIG)	20–600 A	500 A at 40 V, 100% duty cycle* 550 A at 42 V, 60% duty cycle 600 A at 42 V, 40% duty cycle	92 VDC 15 VDC**	3-phase: 27,000 watts peak, 20,000 watts continuous 1-phase: 15,000 watts peak, 12,000 watts continuous	H: 46 in. (1,168 mm) W: 28.5 in. (724 mm) D: 69.5 in. (1,765 mm) Add 7.5 in. (191 mm) to heights for exhaust pipe	Net: 1,750 lb. (793.8 kg) Add 51 lb. (23 kg) for ship weight Add 165 lb. (75 kg) when fuel tank is full
CV/DC (MIG/FCAW)	14–44 V					

*Meets NEMA and IEC ratings. **Sense voltage for stick and Lift-Arc™ TIG. ***Will operate either 60 hertz or 50/60 hertz power tools, lights, etc.

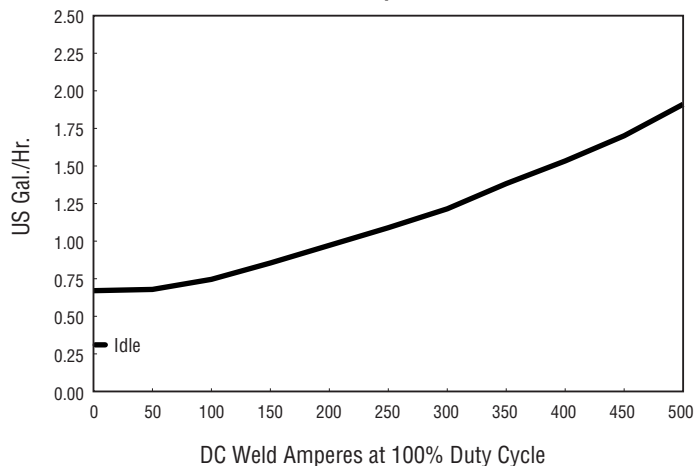
Certified by Canadian Standards Association to both the Canadian and U.S. Standards.

Engine Specifications (Engines warranted separately by the engine manufacturer.)

Engine Brand	Features	HP	Type	Engine Speeds	Sound Levels at 23 ft. (7 m)	Capacities	Automatic Engine Shutdown
Kubota V2403	EPA Tier 4 Final compliant, includes 120 V block heater	48.9	Four-cylinder, liquid-cooled industrial diesel	Idle: 1,350 rpm Weld: 1,800 rpm	Idle: 65.9 dB (90.7 Lwa) Weld: 74.3 dB (99.1 Lwa)	Fuel: 25 gal. (95 L) Oil: 10 qt. (9.5 L) Coolant: 9 qt. (8.5 L)	Low oil pressure, high coolant temperature, low fuel level

Performance Data

Fuel Consumption Curve



Simultaneous Welding and Power

Weld Amperes	Total Aux. Power Available (Watts)	
	1-Phase*	- or - 3-Phase
No Weld Output	16,000	20,000
200 A at 28 V	16,000	20,000
300 A at 32 V	13,000	18,000
400 A at 36 V	9,000	12,500
500 A at 40 V	4,500	5,750
600 A at 42 V	4,000	0

*Single-phase listings include 4,000 watts from the exciter stator.