Big Blue 500 X and 600 X

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Engine-Driven Welder/Generator



Ouick Specs

Heavy Construction Structural Steel Maintenance and Repair Rigs Mining Maintenance **Process Piping** Sheet Metal

Heavy Industrial Applications

Processes

Stick (SMAW) MIG (GMAW) Flux Cored (FCAW) DC TIG (GTAW) Submerged Arc (SAW) Stud Welding Air Carbon Arc (CAC-A) 500 X:

(Rated) 5/16 in (8 mm) Carbons (Capable) 3/8 in (9.5 mm) Carbons 600 X:

(Rated) 3/8 in (9.5 mm) Carbons

Output Range

500 X CC: DC Stick 55-500 A DC/TIG 55-500 A 500 X CC/CV: DC Stick 40-550 A DC/TIG 20-350 A

MIG/FCAW 14-40 V

DC Stick 65-600 A DC/TIG 65-600 A 600 X CC: 600 X CC/CV: DC Stick 40-600 A DC/TIG 20-425 A

MIG/FCAW 14-40 V

Generator Output Rated at 104°F (40°C)

5500 Watts Peak - 4000 Watts Continuous

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

The Power of Blue®

Prior Big Blue 452 owners now have a choice between the Big Blue 500 X or the Big Blue 600 X.

Designed for fleet owners that demand the ultimate in reliability and performance.

Three-phase rotating field generator efficiently produces smooth DC weld output using 20-30% less fuel than a rotating armature-type DC generator.

Enclosed robust case design protects internal components from impact and allows air flow to cool and prolong the life of the engine. Also reduces sound levels.

Quick and easy maintenance with single-side access to oil level check, oil fill, oil filter, fuel filter and air cleaner.

Remote toolless oil drain allows oil to be drained without getting under the engine and reduces the chance of oil spillage.



CC/CV Models: The Vault — ultimate control board reliability. See page 3.



10,000 hours before the first basic overhaul,

- · Hour meter function
- · Oil change interval
- · High coolant temperature and low oil pressure shutdowns

NEW! Meter maintenance displays.

· Low fuel shutdown — engine shuts downs before system runs out of fuel, making restarts easy.

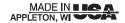
Arc-Drive makes welding easy. Automatically enhances Stick welding, especially on pipe, by focusing the arc and preventing the electrode from going out.

Hot Start™ provides positive Stick electrode starts making it easy to start all types of electrodes and it also works great for bead tie-ins.

Weatherproof Lexan® nameplate resists cracking and fading, and is color-coded for ease of operation.

Standard GFCI receptacle as required on most job sites to protect operators from electrical hazards.

CSA, IEC and NEMA compliant for welders. Degree of protection provided by enclosure IP23.







Big Blue 500 X and 600 X CC Specifications (Subject to change without notice.)





Model	Welding Mode	Weld Output Range	Weld Output Rated at 104°F (40°C)	Max. Open- Circuit Voltage	Generator Output Rated at 104°F (40°C)	Dimensions**	Weight (without fuel)***
Big Blue 500 X CC	CC/DC	55 – 500 A	400 A at 36 V (14.4 kW),* 100% Duty Cycle 450 A at 38 V (17.1 kW),* 60% Duty Cycle 500 A at 30 V (15 kW), 40% Duty Cycle	95	Peak: 5500 watts Continuous: 4000 watts, 34/17 A, 120/240 VAC, 50/60 Hz while welding	H: 43 in (1092 mm) W: 28-1/2 in (724 mm) D: 64-7/16 in (1637 mm)	Perkins 404D.22: 1545 lb (701 kg) Deutz D2011L03i: 1655 lb (751 kg)
Big Blue 600 X CC		65 – 600 A	500 A at 40 V (20 kW),* 100% Duty Cycle 550 A at 34 V (18.7 kW), 60% Duty Cycle 600 A at 30 V (18 kW), 40% Duty Cycle				Perkins 404D.22T: 1565 lb (710 kg) Deutz D2011L04i: 1695 lb (769 kg) Deutz D912L03: 1785 lb (810 kg)

^{*}NEMA EW1 (ANSI C87.1) Class (1) output ratings. **Additional 7 in (178 mm) to top of exhaust. ***Additional 190 lb (86 kg) when fuel tank is full.

Big Blue 500 X and 600 X CC/CV Specifications (Subject to change without notice.)





Model	Welding Mode	Weld Output Range	Weld Output Rated at 104°F (40°C)	Max. Open- Circuit Voltage	Generator Output Rated at 104°F (40°C)	Dimensions**	Weight (without fuel)***
Big Blue 500 X CC/CV	CC/DC CV/DC	20 – 550 A 14 – 40 V	400 A at 36 V (14.4 kW),* 100% Duty Cycle 450 A at 38 V (17.1 kW),* 60% Duty Cycle 500 A at 34 V (17 kW), 40% Duty Cycle	95	Peak: 5500 watts Continuous: 4000 watts, 34/17 A, 120/240 VAC, 50/60 Hz while welding	H: 43 in (1092 mm) W: 28-1/2 in (724 mm) D: 64-7/16 in (1637 mm)	Perkins 404D.22: 1545 lb (701 kg) Deutz D2011L03i: 1655 lb (751 kg)
Big Blue 600 X CC/CV		20 – 600 A 14 – 40 V	500 A at 40 V (20 kW),* 100% Duty Cycle 550 A at 42 V (23.1 kW), 60% Duty Cycle 600 A at 34 V (20.4 kW), 40% Duty Cycle				Perkins 404D.22T: 1565 lb (710 kg) Deutz D2011L04i: 1695 lb (769 kg) Deutz D912L03: 1785 lb (810 kg)

^{*}NEMA EW1 (ANSI C87.1) Class (1) output ratings. **Additional 7 in (178 mm) to top of exhaust. ***Additional 190 lb (86 kg) when fuel tank is full.

Engine Specifications (Subject to change without notice.)

Model	Engine Brand	Features	НР	Туре	Engine Speeds (RPM)	Capacities	Automatic Engine Shutdowns
Big Blue 500 X	Perkins 404D.22	Tier IVi, EPA-certified, indirect-injected, liquid-cooled engine with full load sound levels of 73.2 dB @ 7 m (98 Lwa). Right-side service access with service intervals of 500 hours for oil and filters.	32.6	4-cylinder, industrial, liquid-cooled diesel	Weld: 1800 Idle: 1235	Fuel: 25 gal (95 L) Oil: 9 qt (8.5 L) Coolant: 9 qt (8.5 L)	Low Oil Pressure, High Coolant Temperature, Low Fuel Level
	Deutz D2011L03i	Tier IVi, EPA-certified, direct-injected, air/oil-cooled engine with full load sound levels of 76.8 dB @ 7 m (101.7 Lwa). Right-side service access with service intervals of 1000 hours for oil and filters . Approved underground operation with the purchase of a MSHA (30 CFR part 7) certificate.	32.0	3-cylinder, industrial, air/oil-cooled diesel	Weld: 1800 Idle: 1235	Fuel: 25 gal (95 L) Oil: 6.2 qt (5.9 L) Coolant: Integrated oil and water	Low Oil Pressure, High Coolant Temperature, Low Fuel Level
Big Blue 600 X	Perkins 404D.22T	Tier IVi, EPA-certified, turbo-charged, direct-injected, liquid-cooled engine with full load sound levels of 73.2 dB @ 7 m (98 Lwa). Right-side service access with service intervals of 500 hours for oil and filters.	44.3	4-cylinder, industrial, liquid-cooled diesel	Weld: 1800 Idle: 1235	Fuel: 25 gal (95 L) Oil: 6.5 qt (6.2 L) Coolant: 9 qt (8.5 L)	Low Oil Pressure, High Coolant Temperature, Low Fuel Level
	Deutz D2011L04i	Tier IVi, EPA-certified, direct-injected, air/oil-cooled engine with full load sound levels of 76 dB @ 7 m (101 Lwa). Right-side service access with service intervals of 1000 hours for oil and filters . Approved underground operation with the purchase of a MSHA (30 CFR part 7) certificate.		4-cylinder, industrial, air/oil-cooled diesel	Weld: 1800 Idle: 1235	Fuel: 25 gal (95 L) Oil: 9 qt (8.5 L) Coolant: Integrated oil and water	Low Oil Pressure, High Coolant Temperature, Low Fuel Level
	Deutz D912L03	The legendary Tier I, EPA-certified, direct-injected, air-cooled engine with full load sound levels of 81 dB @ 7 m (106 Lwa). Right-side service access with service intervals of 500 hours for oil and filters.	41.5	3-cylinder, industrial, air-cooled diesel	Weld: 1800 Idle: N/A	Fuel: 25 gal (95 L) Oil: 9 qt (8.5 L) Coolant: Air	Low Oil Pressure, High Coolant Temperature, Low Fuel Level