

Big Blue® Turbo

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Engine-Driven
Welder/Generator 

Quick Specs

Heavy Industrial Applications

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

Processes

Stick (SMAW)
MIG (GMAW)
Flux Cored (FCAW)
DC TIG (GTAW)
Submerged Arc (SAW)
Stud Welding 1/2 in (12.7 mm)
Air Carbon Arc (CAC-A)
1/2 in (12.7 mm) Carbons
Air Plasma Cutting
with Optional Spectrum Models

Output Range

DC Stick 45–750 A MIG/FCAW 14–40 V
DC TIG 20–450 A

Weld Output Rated at 104°F (40°C)

Stick 600 A, 44 V, 26.4 kW, 60% Duty Cycle
Stick 550 A, 42 V, 23.1 kW, 80% Duty Cycle
MIG/FCAW 500 A, 40 V, 20 kW, 100% Duty Cycle

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

5,500 Watts Peak—4,000 Watts Continuous

Weight Net: 1755 lb (796 kg) Ship: 1780 lb (807 kg)

The Power of Blue.®


Welder/generator. One machine that will do it all without compromising anything. Designed and built to be the most reliable high-output system in the world.

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

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.

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



 **turbocharged four-cylinder diesel engine** provides ample power at high altitudes. Works at altitudes greater than 3 miles (5000 m) without loss of output.

Low cost of ownership. Extended routine maintenance schedule with single-side access to engine and remote drains make unit quick and easy to maintain.

Quiet at only 70 dB (95 Lwa) at idle, 79 dB (104 Lwa) at maximum output. Improves work site communications.

Idles in CV when not welding. Conserves fuel and reduces noise.

Hot Start™ provides positive stick electrode starts to make it easy to start all types of electrodes.

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

TRUE BLUE®
3YR. WARRANTY

Welder/generator is warranted by Miller for 3 years, parts and labor.
Engine is warranted by Deutz for 3 years.

MADE IN **USA**
APPLETON, WI



Miller Electric Mfg. Co.
An Illinois Tool Works Company
1635 West Spencer Street
Appleton, WI 54914 USA

International Headquarters
Phone: 920-735-4505
USA FAX: 920-735-4134
Canadian FAX: 920-735-4169
International FAX: 920-735-4125

Web Site
www.MillerWelds.com



Specifications (Subject to change without notice.)



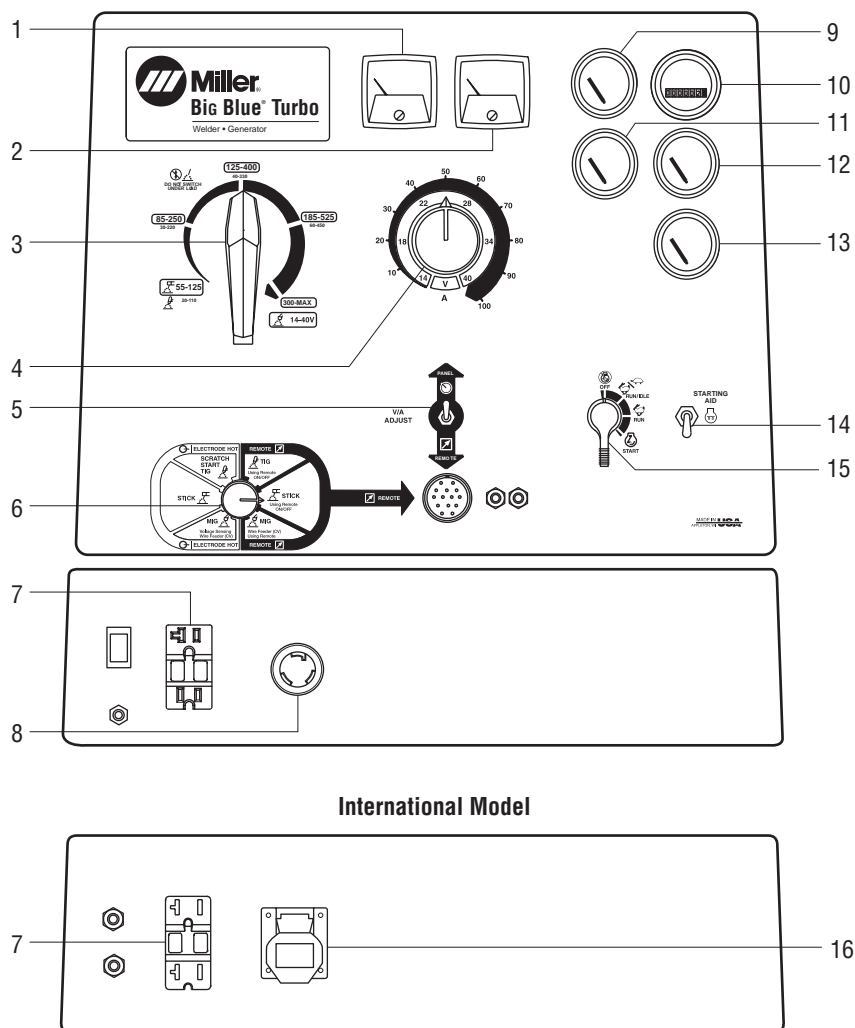
Welding Mode	Weld Output Range	Weld Output Rated at 104° F (40° C) NEMA Amperage and Voltage	Max. Open-Circuit Voltage	Generator Output Rated at 104° F (40° C)	Dimensions*	Weight Without Fuel**
CC/DC	20–750 A	600 A, 44 V, 26.4 kW, 60% Duty Cycle 550 A, 42 V, 23.1 kW, 80% Duty Cycle 500 A, 40 V, 20 kW, 100% Duty Cycle	95	Peak: 5500 watts Continuous: 4000 watts, 120/240 VAC, 34/17 A, 60 Hz while welding	H: 43 in (1092 mm) W: 28-1/2 in (724 mm) D: 67-1/2 in (1715 mm)	Net: 1755 lb (796 kg) Ship: 1780 lb (807 kg)
CV/DC	14–40 V	500 A, 40 V, 20 kW, 100% Duty Cycle	56			

Meets NEMA and IEC output ratings. *Additional 7 in (178 mm) to top of exhaust. **Additional 190 lb (86 kg) when fuel tank is full.

Engine (Subject to change without notice.)

Engine Brand	Features	HP	Type	Engine Speeds	Fuel Capacity	Oil Capacity	Automatic Engine Shutdowns
Deutz, BF4M 2011 Diesel	EPA certified, turbocharged direct-injected, liquid-cooled (oil) engine. Right side service access with 500 hr intervals for oil and filters. MSHA approved with purchase of certificate from Deutz dealer.	64	Four-cylinder, industrial, liquid-cooled engine	1850 Run 1235 Idle	25 gal (95 L)	11 qt (10.4 L)	Oil pressure Oil temperature

Control Panel

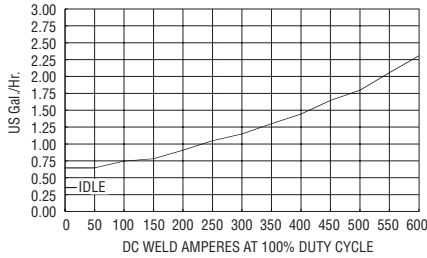


1. Voltmeter
2. Ammeter
3. Amperage Range Switch
4. Amperage/Voltage Adjust Control
5. Amperage/Voltage Adjust Switch and Remote Amperage/Voltage Adjust 14-Pin Receptacle
6. Process/Contactor Selector Switch
7. 120 VAC, 20 A GFCI Duplex Receptacle
8. 240 VAC, 30 A TwistLock Receptacle (NEMA L6-30)
9. Engine Oil Pressure Gauge
10. Engine Hour Meter
11. Engine Coolant Temperature Gauge
12. Fuel Gauge
13. Battery Voltmeter
14. Starting Aid Switch*
15. Engine Control Switch
16. International Model 240 VAC, 16 A Pin and Sleeve Receptacle

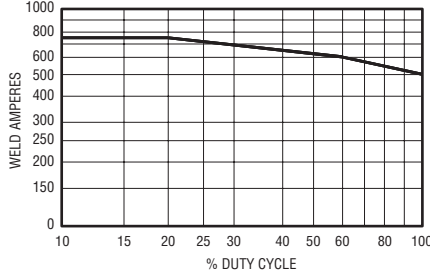
*Optional

Performance Data

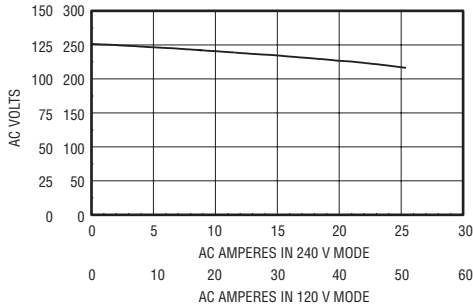
FUEL CONSUMPTION CURVE



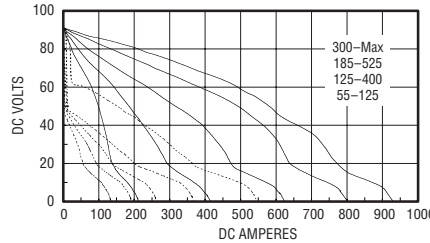
DUTY CYCLE CURVE



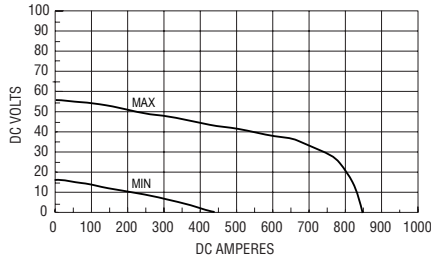
5.5 kW RATING CHART



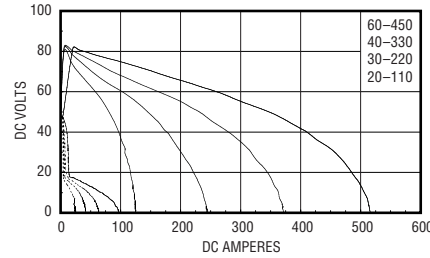
VOLT/AMP CURVE – STICK MODE



VOLT/AMP CURVE – MIG MODE



VOLT/AMP CURVE – DC TIG MODE



The Vault
The ultimate in control board reliability. Designed and built to operate in the harshest conditions with a 99.7% reliability rating. This rugged solid-state control has sealed connections made through watertight plugs that make this component impenetrable to dust, moisture and corrosion.



Toolless Generator Brushes
100% copper-wound generator features quick and easy brush and slip ring inspection. Brushes can be removed and/or replaced in a matter of seconds.

Genuine Miller Accessories

Cold Weather Starting Aids*

#043 959 Field 12 V intake manifold heater.

#195 086 Field 120 V oil pan heater element.

**Note: for extreme cold weather both starting aids can be used in conjunction.*

Lockable Fuel Cap Flame Arrestor Kit

#043 947 Field

Fuel cap can be padlocked to prevent vandalism. A built in flame arrestor prevents flames or sparks from entering the fuel tank.



Battery Lockout/Tagout Disconnect Switch

#195 120 Field
Lockable battery disconnect switch for safe routine maintenance.



Vandalism Lockout Kit #195 118 Field

Lockable hinged steel panels cover and protect name plate gauges and ignition switch (padlock included). Also includes engine compartment door lock and key.



Cable Holder #043 946

Saddle-bag-style cable holder. Convenient wrap-around storage of coiled cable for transportation. Stores 100 ft of 2/0 cable on each side.

Note: For best results do not weld when cable is coiled! Canvas cover cannot be used with cable holder.

Ordering Information

Equipment and Factory Options	Stock No.	Description	Qty.	Price
Big Blue® Turbo	Base Model International Model	#907 157 #907 157-01-1	Welding Meters, Automatic Idle, Engine Gauges, 5.5 kW Generator 50/60 Hz, Dry Battery, Pin and Sleeve Receptacle, Welding Meters, Automatic Idle, Engine Gauges, 5.5 kW Generator	
Field Kit Accessories				
Cold Weather Starting Aids		#043 959 #195 086	12 volt intake manifold heater 120 volt oil pan heater	
Lockable Fuel Cap Flame Arrestor		#043 947	Padlock not included	
Battery Lockout/Tagout Disconnect Switch		#195 120	Allows machine battery to be disconnected and locked	
Vandalism Lockout Kit		#195 118	Lockable front control panel and engine compartment	
Cable Holder		#043 946	For all models, stores up to 200 ft of 2/0 weld cable	
Protective Cover		#195 160	Will not work with cable holder accessory	
Remote Controls				
RHC-14		#129 340	Amperage or voltage control for CC/CV models only	
RFCS-14		#043 554	Foot control for CC/CV models only	
RMLS-14		#129 337	Momentary and maintained contact switch	
RCC-14		#151 086	Fingertip control	
Extension Cords		#043 725 #043 726 #043 727	25 ft, 14-pin remote controls/24 VAC wire feeders 50 ft, 14-pin remote controls/24 VAC wire feeders 75 ft, 14-pin remote controls/24 VAC wire feeders	
Stick Accessories				
Welding Leads		#173 851 #043 952	2/0, 350 A, 100% duty cycle, 50 ft stinger, 50 ft work clamp 2/0, 300 A, 100% duty cycle, 100 ft stinger, 50 ft work clamp	
Wire Feeders				
Suitcase 12VS Wire Feeder		#194 941	Includes contactor and gas valve. See Lit. Index No. M/6.4	
Suitcase 8VS Wire Feeder		#194 890	Includes contactor and gas valve. See Lit. Index No. M/6.4	
S-32SL Wire Feeder		#109 294	See Lit. Index No. M/6.21	
Guns and Consumables			See Lit. Index No. M/10.0 and M/13.4	
Trailers and Hitches				
RCT-224 Trailer		#194 875	Trailer with lights, fenders and 2-1/2 in lunette eye	
Ball Hitch, 2 in		#189 585	Replaces the 2-1/2 in lunette eye on the RCT-224	
HWY-224 Trailer		#043 805	Trailer with lights, fenders and 2 in ball hitch	
OFR-224 Trailer		#043 802	Trailer with 2 in ball hitch	
Lunette Eye, 2-1/2 in		#043 824	Replaces the 2 in ball hitch on the HWY-224 or OFR-224	
Cable Tree		#043 826	Trailer mounted cable holder for HWY-224, OFR-224 or HWY-430	
HWY-430 Trailer		#043 806	Hitch required	
Ball Hitch, 2 in		#043 864	For HWY-430 only	
Lunette Eye, 3 in		#043 863	For HWY-430 only	
4-West Trailer		#042 801	4 wheel steerable implement trailer	

Date:

Total Quoted Price:



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