

Big Blue® 300

Issued April 2008 • Index No. EDR/5.3

**Diesel Welder/
Generator for Rental** 

Quick Specs

Industrial Applications

Pipe Welding
Structural
General Fabrication
Rental
Construction Fleets

Processes

Stick (SMAW)
MIG (GMAW)
Flux Cored (FCAW)
Lift-Arc DC TIG (GTAW)
Air Carbon Arc (CAC-A)
thru 1/4 in (6.4 mm) carbons

Output Range DC Stick 40–410 A
DC TIG 20–410 A
FCAW/MIG 14–40 V

Generator Output Rated at 104° F (40° C)
12,000 Watts Peak, 10,000 Watts Continuous

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

The Power of Blue.®

The Big Blue 300 is ideal for rental or construction fleets where reliability, ease of use and ease of service are required.

Superior arc performance

- Four preset DIG settings (Stick)
- Hot Start™ (Stick)
- Lift-Arc™ TIG with Auto-Stop™ and Crater-out
- MIG/FCAW arc performance

Tailored Arc Control (DIG) allows the arc characteristics to be changed for specific applications and electrodes. Smooth running 7018 or stiffer, more penetrating 6010 electrodes.

Simple-to-set controls require no elaborate procedure—just select process and weld!

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

Lift-Arc starts provide DC TIG arc starting without the use of high frequency.



The Vault—ultimate control board reliability. See page 2.

BUILT TOUGH

Improved!

Superior Arc Performance!



See inside for more machine features/benefits.

Heavy-Duty Low-Speed Industrial Engine Choices!

 **Perkins 403D-15, 21.7 HP @ 1800 RPM industrial diesel engine**



Deutz D2008 L04, 24.3 HP @ 1800 RPM industrial engine

Designed to operate over 10,000 hours before the first basic overhaul. Backed by worldwide support and service.

Low-speed industrial diesel engine (1800 RPM) offers long service intervals, long engine life and low operating expenses.

Meter maintenance displays.

- Hour meter function
- Oil change interval
- High coolant temperature and low oil pressure shutdowns
- Low fuel shutdown—engine shuts down before system runs out of fuel, making restarts easy.

Quiet operation: Improves work site communication.

Industry leading reliability!

A product of:

- Ease of repair by design
- Best technical support
- Best warranty support
- Best parts support
- Lowest repair cost

TRUE BLUE
3YR WARRANTY

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

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.)



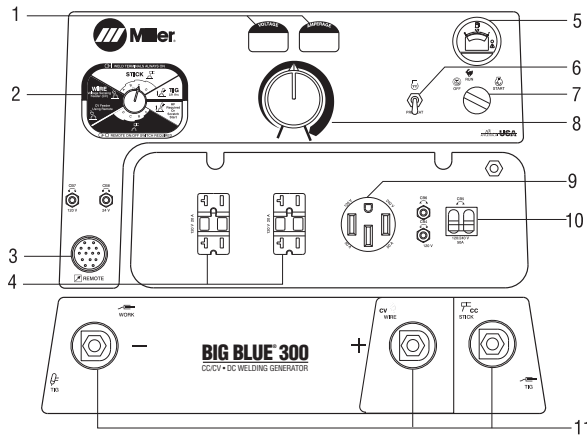
Weld Mode	Weld Output Range	Weld Output Rated at 104° F (40° C)	Max. Open-Circuit Voltage	Generator Power Output Rated at 104° F (40° C)	Sound Levels at Rated Output, 7 m (23 ft)	Dimensions	Net Weight (without fuel)*
CC/DC	20–410 A	400 A, 23 VDC, 30% Duty Cycle 300 A, 32 VDC, 60% Duty Cycle	65	12,000 Watts Peak 10,000 Watts Continuous Single-phase, 120/240 VAC, 83/42 A 60 Hz	Perkins: 71 dB (96 Lwa) Deutz: 73 dB (98 Lwa)	H: 32 in (813 mm) W: 26-1/4 in (667 mm) D: 56 in (1422 mm)	Perkins: Net: 1128 lb (512 kg) Ship: 1150 lb (522 kg) Deutz: Net: 1208 lb (548 kg) Ship: 1230 lb (558 kg)
CV/DC	14–40 V						

*Additional 82 lb (37 kg) when fuel tank is full.

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

Engine Brand	Features	HP	Type	Engine Speeds	Fuel Capacity	Oil Capacity	Coolant Capacity	Automatic Engine Shutdown
Perkins 403D-15	EPA Tier III indirect-injected liquid-cooled engine. Right side service access with intervals of 250 hrs for oil and filters.	21.7	3-cylinder, industrial liquid-cooled, diesel	1850 RPM weld	11.5 gal (43.5 L)	6 qt (5.7 L)	6 qt (5.7 L)	Low Oil Pressure, High Coolant Temperature, Low Fuel Level
Deutz D2008 L04		24.3	4-cylinder, industrial liquid-cooled, diesel	1800 RPM weld				

Control Panel



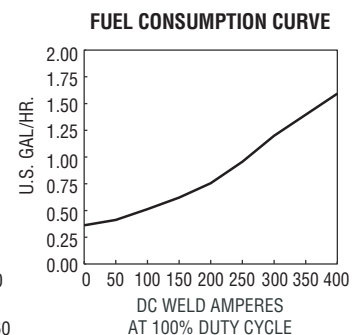
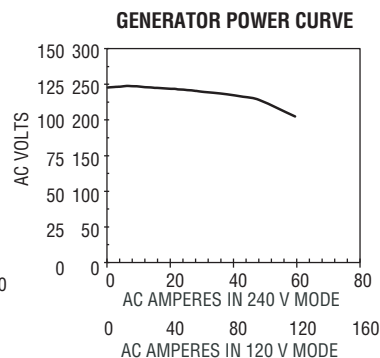
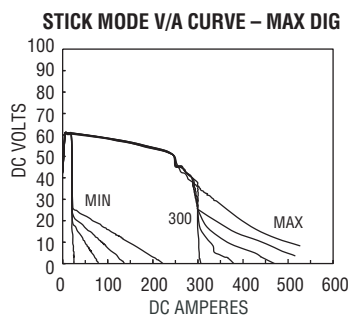
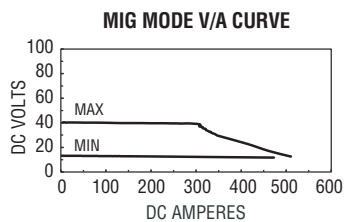
1. Digital Voltmeter and Ammeter
2. Process Selector/Arc Controller
3. 14-Pin Remote Receptacle
4. 120 V, 20 A GFCI Duplex Receptacles
5. Fuel Gauge/Hour Meter/Engine Shutdown Indicator
6. Engine Preheat Switch
7. Ignition Switch
8. Amperage/Voltage Adjust Control
9. 120/240 V, 50 A Receptacle (NEMA 14-50)
10. Generator Power Circuit Breakers
11. Output Terminals



Heavy-Duty Design

New single Vault design provides arc control and superior welding performance along with the ultimate reliability in the harshest of environments. A hermetically-sealed vault protects Miller control boards from dust, moisture and tough environmental elements.

Performance Data



SIMULTANEOUS WELDING AND POWER

Weld Amperes	Total Power Available (Watts)	120 V	240 V
225	3000	25	12.5
175	5000	41.6	20.8
125	5900	49.2	24.6
75	7300	60.8	30.4
25	10,000	83.5	41.7

Genuine Miller Options and Accessories

Cold Weather Starting Aid #195 056 Field 120 V block heater. *Note: All models come standard with preheaters (glow plugs).*

Spark Arrestor (Muffler) Kit #195 291 Field Prevents particles from leaving the muffler that could potentially start a fire. Mandatory when operating on California grasslands, brush, or forest-covered land, and all national forests. For other areas, check your state and local laws.



FA-1D Lockable Flame Arrestor Fuel Cap #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.

Protective Cover #195 301 Field Blue water-resistant cover with Miller logo resists stains and mildew, and protects the finish of your welder.

Remote Controls



RFCS-14 Foot Control #043 554 Foot current and contactor control. 20 ft (6 m) cord and 14-pin plug.



RHC-14 Hand Control #129 340 Miniature hand control for remote current and contactor control. Dimensions: 4 x 4 x 3-1/4 in (102 x 102 x 82 mm). Includes 20 ft (6 m) cord and 14-pin plug.

Extension Cords for 14-Pin Remote Controls
#122 973 25 ft (7.6 m)
#122 974 50 ft (15.2 m)
#122 975 75 ft (22.9 m)

MIG (GMAW) or Flux Cored (FCAW)



SuitCase™ X-TREME™ 8VS Wire Feeder #300 093
SuitCase™ X-TREME™ 12VS Wire Feeder #195 500
 Lightweight, voltage-sensing wire feeders include secondary contactor and gas valve. Require drive roll kit. See Lit. Index No. M/6.41.



SuitCase™ 8RC Wire Feeder #194 938
SuitCase™ 12RC Wire Feeder #194 940
 Lightweight and flexible enough to run a variety of wires up to .062 in diameter. Comes standard with remote voltage control. See Lit. Index No. M/6.5.

MIG (GMAW)/Flux Cored (FCAW) Guns
 Miller produces a complete line of dependable MIG guns. See Lit. Index Nos. AY/15.0, AY/16.0 and AY/17.0.

Stick Welding Leads



Weld Cable with Electrode Holder #195 457
 Consists of 10 ft 2/0 cable with electrode holder and Tweco male connector, and stud/Tweco adapter. Rated up to 400 A.



Weld Cable with Work Clamp #195 458
 Consists of 10 ft 2/0 cable with work clamp and Tweco male connector, and stud/Tweco adapter. Rated up to 400 A.



Weld Cable Extensions
#194 456 50 ft (15.2 m)
#195 455 100 ft (30.5 m)
 2/0 weld cable leads rated up to 400 A.

Multiple Operator Welding

The XMT 304 and GST 280 power sources can be run off the machine's generator to provide two arcs with only one engine. There is no arc interaction under 180 amps.



XMT® 304 #903 471 and #903 471-01-1 only
 See Lit. Index No. DC/18.8.



CST™ 280 #907 244, #907 244-01-1 #907 251, #907 251-01-1
 See Lit. Index No. DC/29.55.

Trailers and Hitches (Note: Trailers are shipped unassembled.)

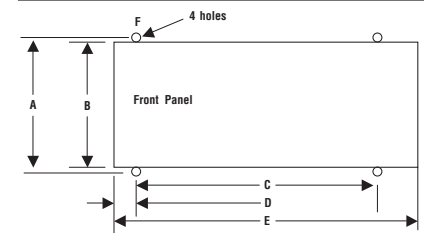


Shown with ball hitch, fenders and lights.

Mid-Frame Trailer #195 481
 1500 lb (680 kg) capacity highway trailer. Welded steel tubing frame, heavy-duty axle with roller bearing hubs and leaf-spring suspension. Comes with jack stand, and safety chain (order hitch separately).

Ball Hitch, 2 in #195 493
Lunette Eye 2-1/2 in (64 mm) #043 824
Fender Kit #195 482
Light Kit #195 483
 Requires fender kit.
Cable Tree #195 023
 Provides an area to conveniently wrap weld cables and extension cords.

Mounting Specifications



A. 27-3/4 in (705 mm)
B. 26-1/4 in (667 mm)
C. 52 in (1321 mm)
D. 2 in (51 mm)
E. 56 in (1422 mm)
F. 9/16 in (14 mm) dia.

Height: 32 in (813 mm)
Width: 26-1/4 in (667 mm)
Depth: 56 in (1422 mm)

Trailer Specifications (Subject to change without notice.)

Model	Gross Axle Weight Rating	Gross Vehicle Weight Rating	Net Payload	Height of Bed	Road Clearance	Track (Center to center of tires)	Standard Tires (Standard rating or P-size rating)	Dimensions	Net Weight
Mid-Frame	1500 lb (680 kg)	1666 lb (755 kg)	1424 lb (645 kg)	18-1/2 in (470 mm)	6-1/2 in (165 mm)	45 in (1143 mm)	B78-13	Length: 98 in (2489 mm) Width: 52 in (1321 mm)*	242 lb (110 kg)

*Width at outside of fenders.

Ordering Information

Equipment and Options	Stock No.	Description	Qty.	Price
Big Blue® 300	#907 242	Perkins CC/CV, Weld Meters		
	#907 242-01-1	Perkins CC/CV, Weld Meters, Starting Aid		
	#907 400	Deutz CC/CV, Weld Meters		
	#907 400-01-1	Deutz CC/CV, Weld Meters, Starting Aid		
Accessories				
Cold Weather Starting Aid	#195 056	Field, 120 V block heater		
Spark Arrestor (Muffler) Kit	#195 291	Field		
FA-1D Lockable Flame Arrestor Fuel Cap	#043 947	Field		
Protective Cover	#195 301	Field		
Remote Controls and Switches				
RHC-14	#129 340	Hand control		
RFCS-14	#043 554	Foot control		
Extension Cords	#122 973	25 ft (7.6 m)		
	#122 974	50 ft (15.2 m)		
	#122 975	75 ft (22.9 m)		
Multiple Operator Welding				
XMT® 304 CC/CV	#903 471	See Lit Index No. DC/18.8		
	#903 471-01-1			
CST™ 280 CC/DC	#907 244	220-230/460–575 VAC w/Dinse-style connectors. See Lit Index No. DC/29.55		
	#907 244-01-1	220-230/460–575 VAC w/Tweco-style connectors. See Lit Index No. DC/29.55		
	#907 251	208-230/400–460 VAC w/Dinse-style connectors. See Lit Index No. DC/29.55		
	#907 251-01-1	208-230/400–460 VAC w/Tweco-style connectors. See Lit Index No. DC/29.55		
MIG/Flux Cored Welding				
SuitCase™ X-TREME™ 8VS	#300 093	See Lit Index No. M/6.41		
SuitCase™ X-TREME™ 12VS	#195 500	See Lit Index No. M/6.41		
SuitCase™ 8RC	#194 938	See Lit Index No. M/6.5		
SuitCase™ 12RC	#194 940	See Lit Index No. M/6.5		
MIG (GMAW) and Flux Cored (FCAW) Guns		See Lit Index Nos. AY/15.0, AY/16.0 and AY/17.0		
Stick Welding Leads				
Weld Cable with Electrode Holder	#195 457	Requires weld cable extension		
Weld Cable with Work Clamp	#194 458	Requires weld cable extension		
Weld Cable Extensions	#194 456	50 ft (15.2 m)		
	#194 455	100 ft (30.5 m)		
Trailers and Hitches				
Mid-Frame Trailer	#195 481			
Ball Hitch, 2 in	#195 493			
Lunette Eye Hitch, 2-1/2 in (64 mm)	#043 824			
Fender Kit	#195 482			
Light Kit	#195 483	Requires fender kit		
Cable Tree	#195 023			

Date:

Total Quoted Price:

Distributed by:

