

Blue Star® 185

Gas Engine-Driven Welder 

Quick Specs

Industrial Applications

Maintenance and repair
Farm/ranch applications
Construction
Service trucks

Processes

Stick (SMAW)
DC TIG (GTAW)
Air plasma cutting and gouging
with optional Spectrum® models

Output Range 60–195 A

Auxiliary Power Output Rated at 104°F (40°C)

6,500 watts peak, 6,200 watts continuous

Net Weight 296 lb. (134 kg)

Reliable outdoor portable power — great for farm, ranch, maintenance and construction.

Large 6.25-gallon fuel capacity leads its class. Longer run time for welder or auxiliary power usage. See page 2 for fuel consumption data.

Electric start for easy engine start-up.

Auto idle idles engine while not in use. Reduces fuel consumption and noise.

Engine controls on front panel for engine switch, idle control and choke cable.

Hour meter provides easy tracking of run hours for maintenance intervals.

Compact and mobile. With a small footprint, the Blue Star uses little truck space. Optional running gear is designed for easy on-site mobility.



Class-leading 6,500-watt peak power of regulated power to extend power tool life.

Accu-Rated™ peak auxiliary power is usable for maximum auxiliary power loads such as plasma cutting, Millermatic® MIG welders and motor starting.

Single-range amperage control makes setting amperage levels easy.

Quick-reference parameter chart provides convenient amperage setting guidance.

120-volt GFCI and 240-volt receptacles provide power for jobsite tools. Receptacles are circuit-breaker protected.

Receptacle covers improve reliability by protecting receptacles from debris.

Reliable air-cooled OHV engine ensures consistent engine performance.



Engine-driven welder is warranted for three years, parts and labor.
Engine is warranted separately by the engine manufacturer.



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Specifications (Subject to change without notice.)



Welding Mode	Welding Process	Amperage Range	Rated Weld Output at 104°F (40°C)*	Single-Phase Auxiliary Power	Dimensions	Net Weight (without fuel)
CC/DC	DC stick/TIG	60–195 A	185 A at 25 V, 20% duty cycle 150 A at 25 V, 100% duty cycle	Peak: 6,500 watts Continuous: 6,200 watts 120/240 VAC, 40/26 A	H: 24.75 in. (629 mm) W: 20.625 in. (524 mm) D: 31.25 in. (794 mm)	296 lb. (134 kg)

*Rated at sea level.



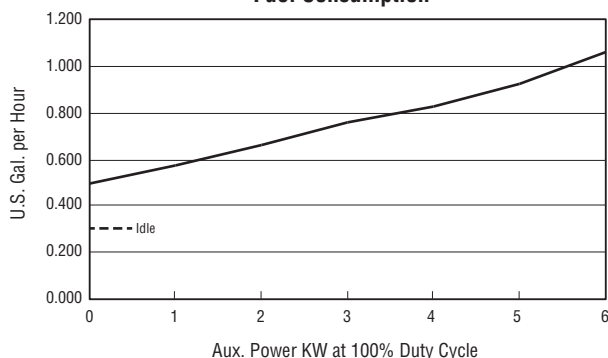
Certified by Canadian Standards Association to both the Canadian and U.S. Standards.

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

Engine Brand and Warranty	Horsepower (HP)	Type	Engine Speeds	Fuel Capacity	Oil Capacity	Standard Shutdowns
Kohler CH440, 3-year warranty	13.4 hp at 3,600 rpm	One-cylinder, four-cycle overhead valve, industrial air-cooled, gasoline	3,750 rpm (2,500 rpm at idle)	6.25 gal. (23.7 L)	1.4 qt. (1.3 L)	Low oil level

Performance Data

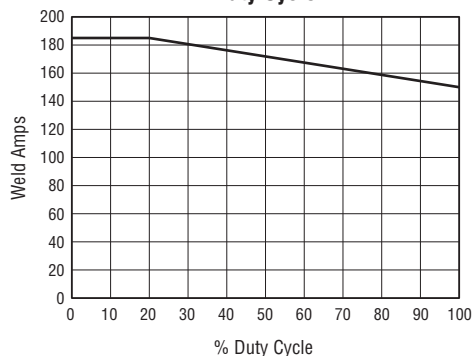
Fuel Consumption



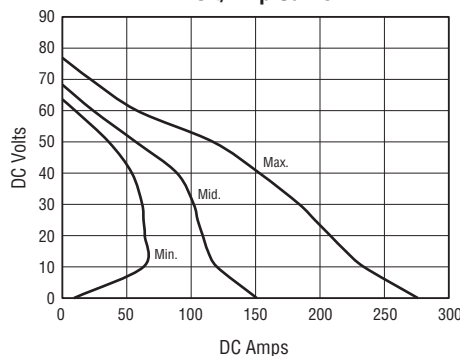
Fuel Consumption Data

- 6.25-gallon fuel capacity.
- Under a continuous load of 3,000 watts of auxiliary power, the Blue Star 185 will run for about 7.5 hours.
- Welding at 130 amps (at 30 percent duty cycle), the Blue Star 185 will run for about 12.8 hours of operation.

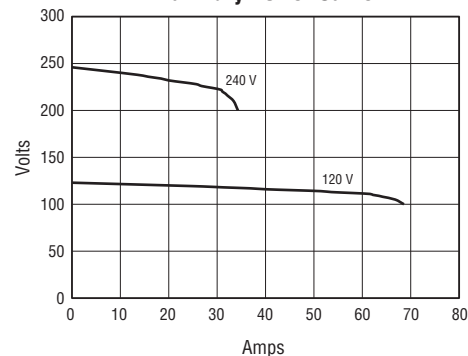
Duty Cycle



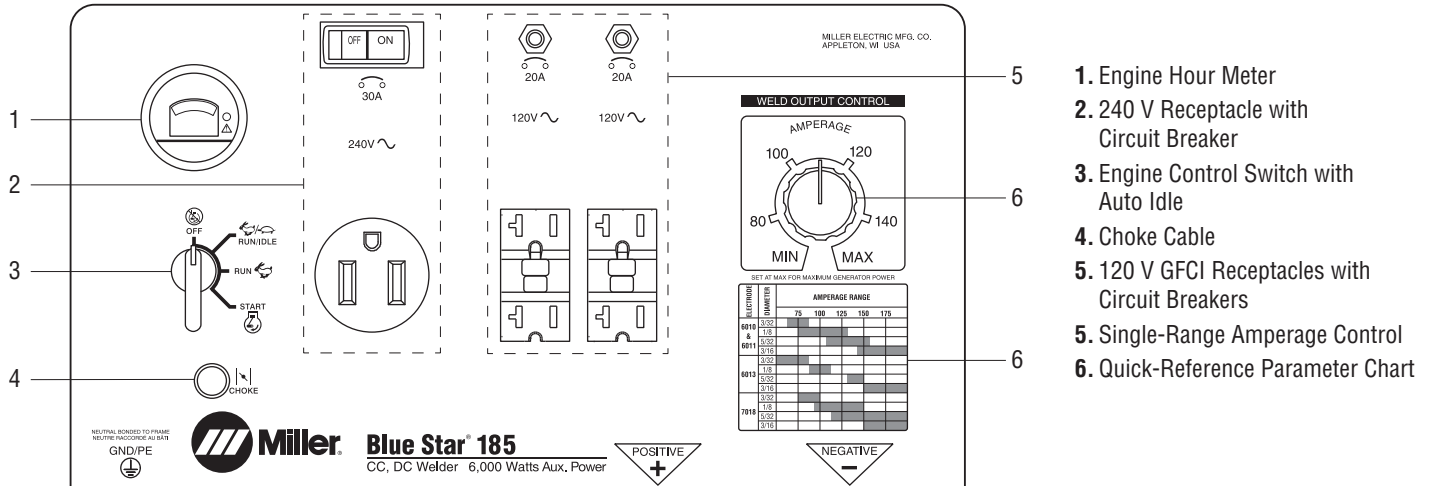
Volt/Amp Curve



Auxiliary Power Curve



Control Panel



Power Usage Guide

The auxiliary power is designed to provide **strong power** while keeping the voltage within 10 percent of 120/240 V. 120/240 V \pm 10 percent is the range where tools and motors are designed to operate. **This increases tool/motor performance and tool/motor life.**

Typical Contractor Tools

Tool	Starting Watts	Running Watts
Hand Drill		
1/4 inch	350	350
1/2 inch	600	600
Circular Saw		
6-1/2 inch	500	500
8-1/4 inch	1,400	1,400
Table Saw (10 inch)	6,300	1,800
Band Saw (14 inch)	2,500	1,100
Air Compressor		
1/2 hp	3,000	1,000
1-1/2 hp	8,200	2,200
Electric Chain Saw		
1/2 hp, 12 inch	1,100	1,100
2 hp, 14 inch	1,100	1,100
Flood Lights		
HID	125	100
Metal halide	313	250
Mercury	1,000	—
Vapor	1,250	1,000
Submersible Pump (400 gph)	600	200
Centrifugal Pump (900 gph)	900	500
High Pressure Washer		
1/2 hp	3,150	950
1 hp	6,100	1,600
Wet and Dry Vac (1.7 hp)	900	900

Typical Farm Equipment

Machine	Starting Watts	Running Watts
Portable Conveyor (1/2 hp)	3,400	1,000
Farm Duty Motors (e.g. conveyors, feed augers, air compressors)		
1/3 hp	1,720	720
1-1/2 hp	8,200	2,200
Washer (2 gal/min.)		
550 psi	4,500	1,400
700 psi	6,100	1,600

Typical Industrial Motors

Motor	Starting Watts	Running Watts
Split Phase		
1/8 hp	800	300
1/2 hp	3,175	875
Capacitor Start — Induction Run		
1/3 hp	2,020	720
1-1/2 hp	8,200	2,200
Capacitor Start — Capacitor Run		
1-1/2 hp	8,100	2,000
Fan		
1/8 hp	1,000	400
1/2 hp	3,500	1,100

Genuine Miller® Accessories



Running Gear 301246

Compact, balanced, lightweight, wheel-barrow-style running gear designed for easy on-site mobility.



Lifting Eye 195353

Secure lift point when picking up machine.

Protective Cover 301245

Blue with logo. Attractive, mildew-resistant, odor-free, water-resistant cover protects your machine's finish.

Spark Arrestor Kit 301244

Mandatory when operating on California grasslands, brush, or forest-covered land, and all national forests. For other areas, check your state and local laws.

Weld Cables 300836

Consists of 50-foot (15.2 m), No. 2 electrode cable with insulated electrode holder and lug, and 50-foot (15.2 m) No. 2 work cable with clamp and lug.



Spectrum® 375 X-TREME™ 907529

See literature PC/9.2. Comes complete with protective X-CASE™ (not shown).

Receptacle Kit 088297

6-foot cord with NEMA 6-50P plug to adapt to any 240 V application.

240 V Electrical Plug 213380

For use with 240 V receptacle.

Remote Oil Drain Kit 224831

Quick connect for easy engine maintenance.

Engine Tune-Up Kit 268469

Field For Kohler CH440. Includes spark plug and engine air filter.

Ordering Information

Equipment	Stock No.	Description	Qty.	Price
Blue Star® 185	907664	Kohler engine, with 120 V GFCI receptacles		
Accessories				
Running Gear	301246	Balanced running gear for easy transport		
Lifting Eye	195353	Provides safe and secure lifting of machine		
Protective Cover	301245	Blue with logo		
Spark Arrestor Kit	301244			
Receptacle Kit	088297	6 ft. cord with 240 V plug		
Remote Oil Drain Kit	224831	Quick connect for easy engine maintenance		
240 V Electrical Plug	213380	For use with 240 V receptacle		
Engine Tune-Up Kit	268469	Includes spark plug and engine air filter		
Stick Accessories				
Weld Cables	300836	Includes 50 ft. No. 2 electrical cable and holder, 50 ft. work cable with clamp and lug		
Plasma Accessories				
Spectrum® 375 X-TREME™	907529	120–240 V, 12 ft. torch. See literature PC/9.2		

Date:

Total Quoted Price:

Distributed by:

