

# Blue Star® 185

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

## Quick Specs

### Industrial Applications

Maintenance  
Repair  
Farm/Ranch Applications  
Construction  
Stand-Alone Generator  
Service Trucks

### Processes

Stick (SMAW)  
DC TIG (GTAW)  
Air Plasma Cutting and Gouging  
with optional Spectrum models

**Output Range for DC Stick/TIG** 60–195 A

**Generator Power Output Rated at 104° F (40° C)**  
6500 W Peak, 6200 W Continuous

**Net Weight**  
296 lb. (134 kg)

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

**Reliable Blue Star engine drive is the standard** for portable welder/generators.

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

**Standard electric start** for easy engine start-up.

**Standard auto idle.** Idles engine while not in use. Reduces fuel consumption and noise.

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

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

**Compact and portable,** its small footprint uses little truck space. Optional running gear also makes the Blue Star one-man portable.



**Class-leading 6500-watt peak power** of regulated power to extend power tool life.

**Accu-Rated™ peak generator power** is usable for maximum generator 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 V GFCI and 240 V 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.



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

# Specifications (Subject to change without notice.)



Welding Mode	Process	Amperage Range	Rated Weld Output at 104° F (40° C)*	Single-Phase Generator Power	Dimensions	Net Weight (without fuel)
CC/DC	Stick/TIG	60–195 A	185 A at 25 V, 20% Duty Cycle 150 A at 25 V, 100% Duty Cycle	Peak: 6500 watts Continuous: 6200 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.



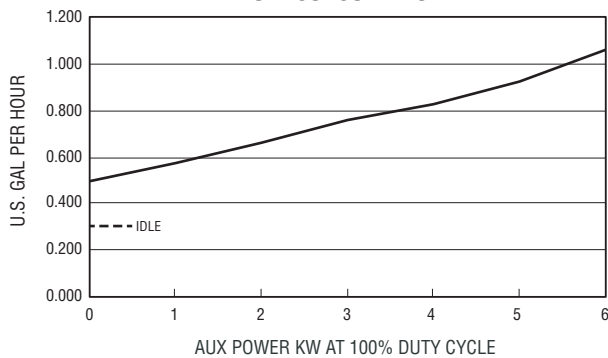
Certified by Canadian Standards Association to both the Canadian and U.S. Standards.

## 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 3600 RPM	One-cylinder, four-cycle, air-cooled, OHV	3750 RPM (2500 RPM at idle)	6.25 gal. (23.7 L)	1.4 qt. (1.3 L)	Low Oil Level

## Performance Data

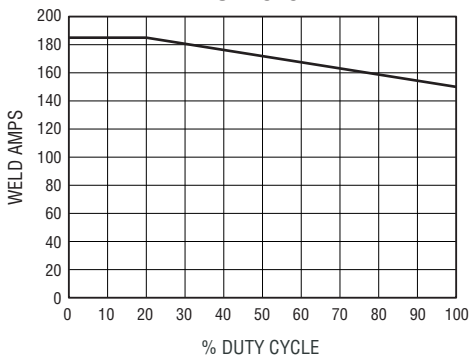
**FUEL CONSUMPTION**



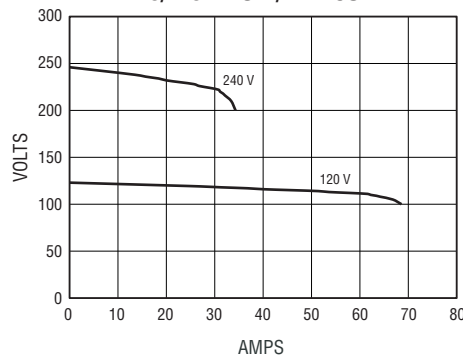
### Fuel Consumption Data

- 6.25-gallon fuel capacity.
- Under a continuous load of 3000 watts of generator 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.

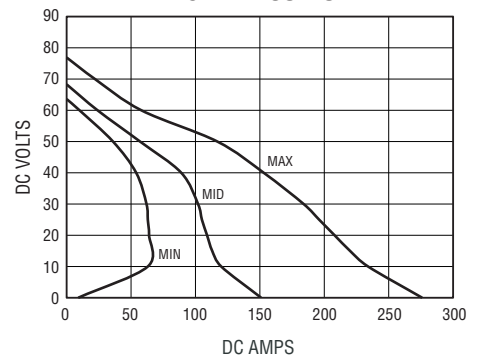
**DUTY CYCLE**



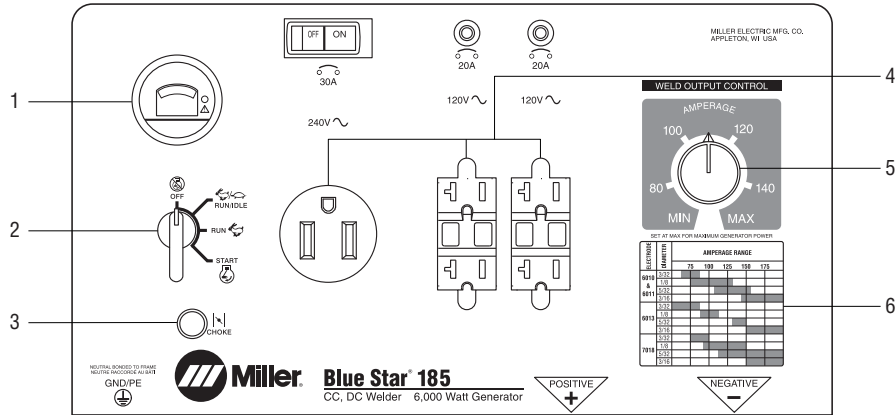
**120/240 V VOLT/AMP CURVE**



**DC WELD OUTPUT**



## Control Panel



1. Engine Hour Meter
2. Engine Switch with Auto Idle
3. Choke Cable
4. 240 VAC and 120 VAC GFCI Receptacles
5. Single-Range Amperage Control
6. Quick-Reference Parameter Chart

## Power Usage Guide

The Power Generator is designed to provide **strong power** while keeping the voltage within 10 percent of 120/240 VAC. 120/240 VAC  $\pm$ 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
<b>Hand Drill</b>		
1/4 inch	350	350
1/2 inch	600	600
<b>Circular Saw</b>		
6-1/2 inch	500	500
8-1/4 inch	1400	1400
<b>Table Saw (10 inch)</b>	6300	1800
<b>Band Saw (14 inch)</b>	2500	1100
<b>Air Compressor</b>		
1/2 HP	3000	1000
1-1/2 HP	8200	2200
<b>Electric Chain Saw</b>		
1/2 HP, 12 inch	1100	1100
2 HP, 14 inch	1100	1100
<b>Flood Lights</b>		
HID	125	100
Metal Halide	313	250
Mercury	1000	—
Vapor	1250	1000
<b>Submersible Pump (400 gph)</b>	600	200
<b>Centrifugal Pump (900 gph)</b>	900	500
<b>High Pressure Washer</b>		
1/2 HP	3150	950
1 HP	6100	1600
<b>Wet &amp; Dry Vac (1.7 HP)</b>	900	900

### Typical Farm Equipment

Machine	Starting Watts	Running Watts
<b>Portable Conveyor (1/2 HP)</b>	3400	1000
<b>Farm Duty Motors (e.g. Conveyors, Feed Augers Air Compressors)</b>		
1/3 HP	1720	720
1-1/2 HP	8200	2200
<b>Washer (2 gal/min.)</b>		
550 PSI	4500	1400
700 PSI	6100	1600

### Typical Industrial Motors

Motor	Starting Watts	Running Watts
<b>Split Phase</b>		
1/8 HP	800	300
1/2 HP	3175	875
<b>Capacitor Start — Induction Run</b>		
1/3 HP	2020	720
1-1/2 HP	8200	2200
<b>Capacitor Start — Capacitor Run</b>		
1-1/2 HP	8100	2000
<b>Fan</b>		
1/8 HP	1000	400
1/2 HP	3500	1100

### Typical Household

Appliance	Starting Watts	Running Watts
<b>Dishwasher</b>		
Cool Dry	1400	700
Hot Dry	1400	1450
<b>Electric Range</b>		
6-inch Element	0	1500
8-inch Element	0	2100
<b>Microwave Oven (625 watts)</b>	800	625
<b>Refrigerator or Freezer</b>	2200	700
<b>Automatic Washer</b>	2300	1150
<b>Clothes Dryer</b>		
Gas	1800	700
Electric	1800	5750
<b>Garage Door Opener</b>		
1/4 HP	1100	550
1/2 HP	1400	725
<b>Furnace Fan (Gas/Fuel Oil)</b>		
1/8 HP	500	300
1/6 HP	750	500
1/4 HP	1000	600
1/3 HP	1400	700
1/2 HP	2350	875
<b>Lights</b>	0	As Indicated
<b>Radio</b>	0	50–200
<b>Well Pump</b>		
1/3 HP	1400	750
1/2 HP	2100	1000
<b>Sump Pump</b>		
1/3 HP	1300	800
1/2 HP	2150	1050
<b>Central Air Conditioner</b>		
10,000 BTU	2200	1500
20,000 BTU	3300	2500
24,000 BTU	4950	3800
32,000 BTU	6500	5000
40,000 BTU	7800	6000

## Genuine Miller® Options and Accessories



### Running Gear #301 246

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



### Lifting Eye #195 353

Secure lift point when picking up machine.

### Protective Cover #301 245

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

### Spark Arrestor Kit #301 244

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 Leads #300 836

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 #907 532

115/230 V with 20-foot torch. Cuts up to 3/8-inch mild steel. See Lit. Index No. PC/9.1.

*Order the following from Miller Service Parts.*

### Remote Oil Drain Kit #224 831

Quick connect for easy engine maintenance.

### Receptacle Kit #088 297

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

### 240 V Electrical Plug #213 380

For use with 240 V receptacle.

### Engine Tune-Up Kit #268 469

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

## Ordering Information

Equipment and Options	Stock No.	Description	Qty.	Price
<b>Blue Star® 185</b>	<b>#907 664</b>	Kohler engine, with 120 V GFCI receptacles		
<b>Accessories</b>				
Running Gear	<b>#301 246</b>	Balanced running gear for easy transport		
Lifting Eye	<b>#195 353</b>	Provides safe and secure lifting of machine		
Protective Cover	<b>#301 245</b>	Blue with logo		
Spark Arrestor Kit	<b>#301 244</b>			
Remote Oil Drain Kit	<b>#224 831</b>	Quick connect for easy engine maintenance. <i>Order from Miller Service Parts</i>		
Receptacle Kit	<b>#088 297</b>	6-ft. cord with 240 V plug. <i>Order from Miller Service Parts</i>		
240 V Electrical Plug	<b>#213 380</b>	For use with 240 V receptacle. <i>Order from Miller Service Parts</i>		
Engine Tune-Up Kit	<b>#268 469</b>	Includes spark plug and engine air filter. <i>Order from Miller Service Parts</i>		
<b>Stick Accessories</b>				
Weld Leads	<b>#300 836</b>	Includes 50-ft., No. 2 electrical cable and holder, 50-ft. work cable with clamp and lug		
<b>Plasma Accessories</b>				
Spectrum® 375	<b>#907 532</b>	115/230 V, 20-ft. torch. See Lit. Index No. PC9.1		

Date:

Total Quoted Price: