

# Blue Star® Series

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Gas Engine-Driven Welder/  
AC Generator 

## Quick Specs

### Industrial Applications

Maintenance  
Repair  
Farm/Ranch Applications  
Construction  
Stand-alone Generator

### Processes

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

### Weld Output Range for DC Stick/TIG

145 models: 40 – 145 A  
185 DX: 55 – 185 A

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

145 models: 4500 Watts Peak, 4000 Watts Continuous  
185 DX: 6000 Watts Peak, 5500 Watts Continuous

### Weight

145: 263 lb (119 kg)  
145 DX: 309 lb (140 kg)  
185 DX: 315 lb (143 kg)

## The Power of Blue.®

**Reliable Blue Star engine drives are the standard** for portable welder/generators.

**Large 5-gallon fuel capacity** (DX models) leads its class. Longer run time for welder or generator usage. See page 2 for fuel consumption data.

**Standard Auto Idle** (DX models) idles engine while not in use. Reduces fuel consumption and noise.

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

**Reliable** air-cooled OHV engines ensure consistent engine performance.

**Quick-reference parameter chart** provides convenient amperage setting guidance.



Blue Star  
185 DX shown

**Three Blue Star models** to choose from. See Page 3 for comparison information.

### Blue Star Series

Blue Star 145  
Blue Star 145 DX  
Blue Star 185 DX (shown)

**Single-range** amperage control makes setting amperage levels easy.

**Class-leading 6000-watt peak power** of regulated power (185 DX model) to extend power tool life.

**Bulletproof technology** eliminates use of complicated circuit boards.

**Hour meter** provides easy tracking of run hours for maintenance intervals (DX models).

**Receptacle covers** improve reliability by protecting receptacles from debris.

**240 V and 120 V receptacles** provide power for jobsite tools. Receptacles are circuit-breaker protected (optional 120 VAC GFCI receptacles are available).



Welder/generator is warranted by Miller for 3 years, parts and labor.  
Engine is warranted 2 years by engine manufacturer.

**MADE IN USA**  
APPLETON, WI 



**Miller Electric Mfg. Co.**  
An Illinois Tool Works Company  
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Appleton, WI 54914 USA

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International FAX: 920-735-4125

**Web Site**  
www.MillerWelds.com



# Specifications (Subject to change without notice.)



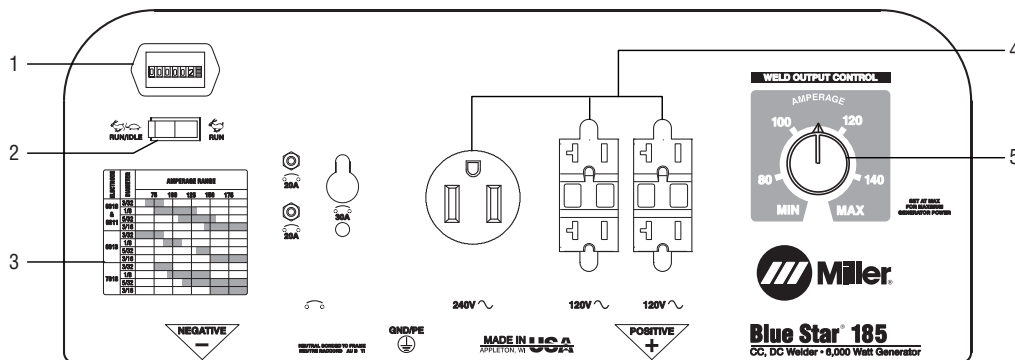
	Model	Welding Mode	Weld Output Range	Weld Output Rated at 104 F (40°C)*	Single-Phase Generator Power	Dimensions	Net Weight (without fuel)
Gasoline	Blue Star® 145	CC/DC (Stick/TIG)	40–145 A	145 A at 25 V, 20% Duty Cycle 100 A at 25 V, 60% Duty Cycle	4500 Watts Peak 4000 Watts Continuous 34 A at 120 V, 17 A at 240 V	H: 22-3/4 in (578 mm) W: 22-3/4 in (578 mm) D: 31-5/8 in (803 mm)	263 lb (119 kg)
	Blue Star® 145 DX						309 lb (140 kg)
	Blue Star® 185 DX	CC/DC (Stick/TIG)	55–185 A	185 A at 25 V, 20% Duty Cycle 130 A at 25 V, 60% Duty Cycle	6000 Watts Peak 5500 Watts Continuous 40 A at 120 V, 23 A at 240 V	H: 22-3/4 in (578 mm) W: 22-3/4 in (578 mm) D: 31-5/8 in (803 mm)	315 lb (143 kg)

\*Rated at sea level.

## Engine Specifications (Subject to change without notice.)

Model	Engine/Warranty	Horsepower (HP)	Type	Engine Speeds	Fuel Capacity	Oil Capacity	Automatic Engine Shutdown
Blue Star® 145	Kohler CS10 2-year warranty	10 HP at 3600 RPM	1-cylinder, 4-cycle, air-cooled, OHV	3750 RPM	1.8 gal (6.8 L)	1.1 qt (1.04 L)	Standard
Blue Star® 145 DX				3750 RPM (2500 RPM at idle)	5 gal (18.9 L)		
Blue Star® 185 DX	Kohler CS12.75 2-year warranty	12.75 HP at 3600 RPM	1-cylinder, 4-cycle, air-cooled, OHV	3750 RPM (2500 RPM at idle)	5 gal (18.9 L)	1.1 qt (1.04 L)	Standard

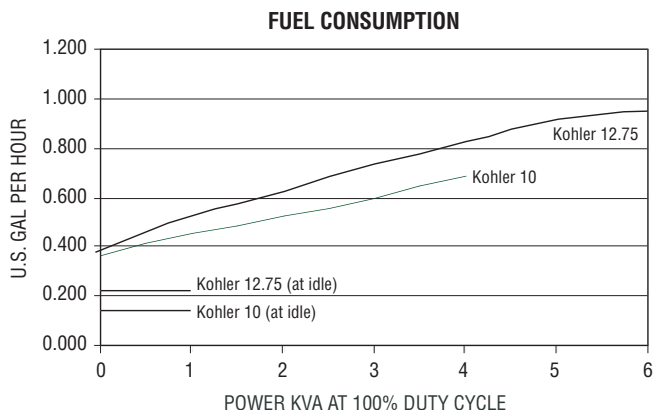
## Control Panel



1. Engine Hour Meter\*
2. Auto Idle Switch\*
3. Quick-Reference Parameter Chart
4. 240 V and 120 V Receptacles
5. Single-Range Amperage Control

\*DX Models only.

## Performance Data



### Fuel Consumption Data

- 5-gallon fuel capacity on DX models. 1.7 and 1.8 gallon on standard models.
- Under a continuous load of 3000 watts of generator power, the Blue Star 185 DX would run for about 6.5 hours.
- Welding at 130 amps (at 30% duty cycle), the Blue Star 185 DX would run for about 15 hours of operation.

## Why Upgrade?



- 96% of current owners rated their Blue Star as “good to very good value.”

*\*Based on an independent survey of thousands of Blue Star owners.*

Feature	Blue Star 145	Blue Star 145 DX	Blue Star 185 DX
<b>Generator Power</b>	4500 W Peak	4500 W Peak	<b>UPGRADE</b> 6000 W Peak
<b>DC Stick/TIG Output</b>	145 A at 25 VDC	145 A at 25 VDC	<b>UPGRADE</b> 185 A at 25 VDC
<b>Engine</b>	Kohler CS10	Kohler CS10	<b>UPGRADE</b> Kohler CS12.75
<b>Receptacle Covers</b>	Standard	Standard	Standard
<b>Fuel Capacity</b>	1.8 Gallons	<b>UPGRADE</b> 5 Gallons	5 Gallons
<b>Auto Idle</b>	No	<b>UPGRADE</b> Yes	Yes
<b>Hour Meter</b>	No	<b>UPGRADE</b> Yes	Yes
<b>Engine Starting</b>	Recoil Only	<b>UPGRADE</b> Electric Start	Electric Start

## Power Usage Guide

The Power Generator is designed to provide **strong power** while keeping the voltage within 10% of 120/240 VAC. 120/240 VAC ±10% 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 Horsepower	3,000	1,000
1-1/2 Horsepower	8,200	2,200
Electric Chain Saw		
1/2 Horsepower, 12 in	1,100	1,100
2 Horsepower, 14 in	1,100	1,100
Flood Lights		
HID	125	100
Metal Halide	313	250
Mercury	1000	—
Vapor	1,250	1,000
Submersible Pump, 400 gph	600	200
Centrifugal Pump, 900 gph	900	500
High Pressure Washer		
1/2 Horsepower	3,150	950
1 Horsepower	6,100	1,600
Wet & Dry Vac,		
1.7 Horsepower	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 Horsepower	1,720	720
1-1/2 Horsepower	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 Horsepower	800	300
1/2 Horsepower	3,175	875
Capacitor Start — Induction Run		
1/3 Horsepower	2,020	720
1-1/2 Horsepower	8,200	2,200
Capacitor Start — Capacitor Run		
1-1/2 Horsepower	8,100	2,000
Fan,		
1/8 Horsepower	1,000	400
1/2 Horsepower	3,500	1,100

### Typical Household

Appliance	Starting Watts	Running Watts
Dishwasher,		
Cool Dry	1,400	700
Hot Dry	1,400	1,450
Electric Range,		
6-in element	0	1,500
8-in element	0	2,100
Microwave Oven, 625 watts	800	625
Refrigerator or Freezer	2,200	700
Automatic Washer	2,300	1,150
Clothes Dryer, Gas	1,800	700
Electric	1,800	5,750
Garage Door Opener,		
1/4 HP	1,100	550
1/2 HP	1,400	725
Furnace Fan, gas/fuel oil		
1/8 Horsepower	500	300
1/6 Horsepower	750	500
1/4 Horsepower	1,000	600
1/3 Horsepower	1,400	700
1/2 Horsepower	2,350	875
Lights	0	as indicated
Radio	0	50–200
Well Pump, 1/3 Horsepower	1,400	750
1/2 Horsepower	2,100	1,000
Sump Pump, 1/3 Horsepower	1,300	800
1/2 Horsepower	2,150	1,050
Central Air Conditioner		
10,000 BTU	2,200	1,500
20,000 BTU	3,300	2,500
24,000 BTU	4,950	3,800
32,000 BTU	6,500	5,000
40,000 BTU	7,800	6,000

# Genuine Miller Options and Accessories



**Lifting Eye #195 353**  
Secure lift point when picking up machine.



**No. 38 Hand Running Gear #195 352**  
Compact, balanced, lightweight, wheelbarrow-style running gear designed for easy on-site mobility.



**Spectrum® 375 #903 891**  
115/230 V with 20 ft torch. Cuts up to 3/8 in mild steel. See Lit. Index No. PC/9.1.

**Spark Arrestor #195 351**  
*For DX Models only. Standard models include engine manufacturer's spark arrestor.* 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 #195 195

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

*Order the following from Miller Service Parts.*

## Remote Oil Drain Kit #224 831

Quick connect for easy engine maintenance.

## Receptacle Kit

**#088 297** 6 ft 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 Kits

**#221 584** Field. Kohler CS10/12

**#221 581** Field. Kohler CS10 (recoil)  
Tune-up kits include spark plug and engine filter.

## Protective Cover #195 193

Blue with logo. Attractive, mildew-resistant, odor-free, water-resistant cover protects your machine's finish and includes easy-off handles.

# Ordering Information

Power Source and Options	Stock No.	Description	Qty.	Price
Blue Star® 145	#907 266	Kohler engine, recoil start		
Blue Star® 145 with GFCI	#907 266-01-1	Kohler engine, recoil start, GFCI 120 V receptacles.		
Blue Star® 145 DX	#907 267	Kohler engine, electric start, 5-gallon fuel tank, auto idle		
Blue Star® 145 DX with GFCI	#907 267-01-2	Kohler engine, electric start, 5-gallon fuel tank, auto idle, GFCI 120 V receptacles		
Blue Star® 145 DX (no battery)	#907 267-01-3	Kohler engine, electric start, 5-gallon fuel tank, auto idle. (With no battery)		
Blue Star® 185 DX	#907 269	Kohler engine, electric start, 5-gallon fuel tank, auto idle		
Blue Star® 185 DX with GFCI	#907 269-01-2	Kohler engine, electric start, 5-gallon fuel tank, auto idle, GFCI 120 V receptacles		
Blue Star® 185 DX (no battery)	#907 269-01-3	Kohler engine, electric start, 5-gallon fuel tank, auto idle. (With no battery)		
<b>Accessories</b>				
Lifting Eye	#195 353	Provides safe and secure lifting of machine		
Protective Cover	#195 193	Blue with logo		
No. 38 Hand Running Gear	#195 352	Balanced running gear for easy transport		
Spark Arrestor	#195 351	For DX models only. (Standard models include engine manufacturer's spark arrestor)		
Remote Oil Drain Kit	#224 831	Quick connect for easy engine maintenance. (Purchase from Miller Service Parts)		
Receptacle Kit	#088 297	6 ft cord with 240 V plug. (Purchase from Miller Service Parts)		
240 V Electrical Plug	#213 380	For use with 240 V receptacle. (Purchase from Miller Service Parts)		
Engine Tune-Up Kits		See above. (Purchase from Miller Service Parts)		
<b>Stick Accessories</b>				
Weld Leads	#195 195	Includes 50 ft, No. 2 electrical cable and holder, 50 ft work cable with clamp and lug		
Stick Electrodes				
<b>TIG Accessories</b>				
TIG Torch, Consumables, Tungsten				
<b>Plasma Accessories</b>				
Spectrum® 375	#903 891	115/230 V, 20 ft torch. See Lit. Index No. PC9.1		

Date:

Total Quoted Price:

Distributed by:

