

Blue Star® Series

**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 DX: 40–145 A
185 DX: 55–185 A

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

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

Weight

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

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

The Power of Blue.®

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

Large five-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.

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**

Two Blue Star models to choose from. See page 3 for comparison information.

Blue Star Series
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.

Receptacle covers improve reliability by protecting receptacles from debris.

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

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



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



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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 DX | 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: 22.75 in. (578 mm) W: 22.75 in. (578 mm) D: 31.625 in. (803 mm) | 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: 22.75 in. (578 mm) W: 22.75 in. (578 mm) D: 31.625 in. (803 mm) |

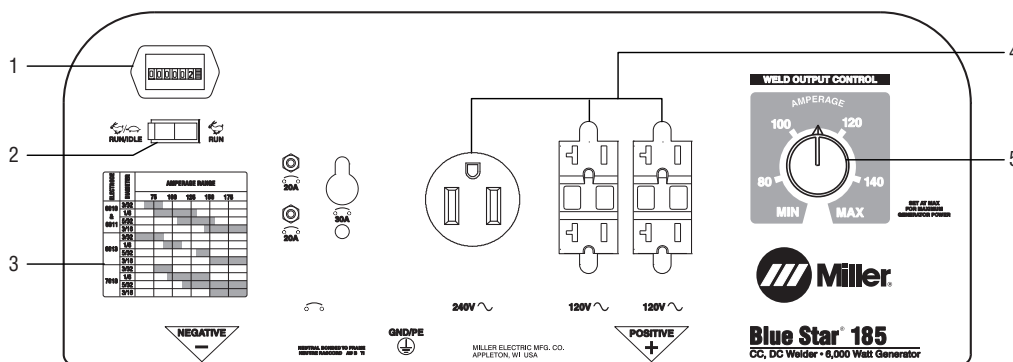
Certified by Canadian Standards Association to both the Canadian and U.S. Standards.

*Rated at sea level.

Engine Specifications (Subject to change without notice.)

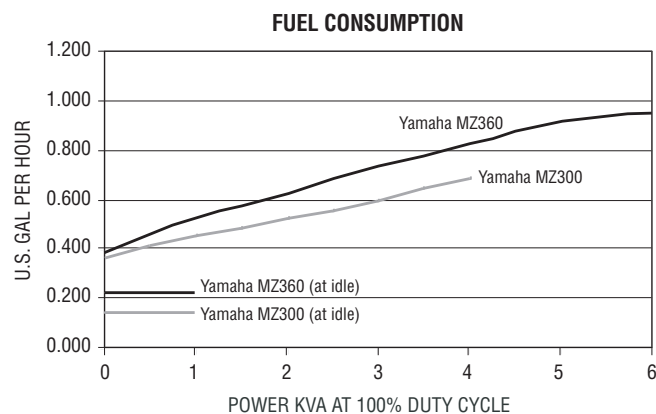
| Model | Engine/Warranty | Horsepower (HP) | Type | Engine Speeds | Fuel Capacity | Oil Capacity | Automatic Engine Shutdown |
|-------------------|---------------------------------|---------------------|--|--------------------------------|--------------------|------------------|---------------------------|
| Blue Star® 145 DX | Yamaha MZ300 3-year warranty | 9.1 HP at 3600 RPM | One-cylinder, four-cycle, air-cooled, OHV | 3750 RPM (2500 RPM at idle) | 5 gal. (18.9 L) | 1.1 qt. (1.04 L) | Standard |
| Blue Star® 185 DX | Yamaha MZ360 3-year warranty | 10.2 HP at 3600 RPM | | | | | |

Control Panel



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

Performance Data



Fuel Consumption Data

- Five-gallon fuel capacity.
- 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 percent duty cycle), the Blue Star 185 DX would run for about 15 hours of operation.

Blue Star® Value

Why Upgrade?



- 96 percent 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 DX | Blue Star 185 DX |
|---------------------|------------------|--------------------------------|
| Generator Power | 4500 W Peak | UPGRADE 6000 W Peak |
| DC Stick/TIG Output | 145 A at 25 VDC | UPGRADE 185 A at 25 VDC |
| Engine | Yamaha MZ300 | UPGRADE Yamaha MZ360 |
| Receptacle Covers | Standard | Standard |
| Fuel Capacity | 5 Gallons | 5 Gallons |
| Auto Idle | Yes | Yes |
| Hour Meter | Yes | Yes |
| Engine Starting | Electric Start | Electric Start |

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 ±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 | 1400 | 1400 |
| Table Saw (10 inch) | 6300 | 1800 |
| Band Saw (14 inch) | 2500 | 1100 |
| Air Compressor | | |
| 1/2 HP | 3000 | 1000 |
| 1-1/2 HP | 8200 | 2200 |
| Electric Chain Saw | | |
| 1/2 HP, 12 inch | 1100 | 1100 |
| 2 HP, 14 inch | 1100 | 1100 |
| Flood Lights | | |
| HID | 125 | 100 |
| Metal Halide | 313 | 250 |
| Mercury | 1000 | — |
| Vapor | 1250 | 1000 |
| Submersible Pump (400 gph) | 600 | 200 |
| Centrifugal Pump (900 gph) | 900 | 500 |
| High Pressure Washer | | |
| 1/2 HP | 3150 | 950 |
| 1 HP | 6100 | 1600 |
| Wet & Dry Vac (1.7 HP) | 900 | 900 |

Typical Farm Equipment

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

Typical Industrial Motors

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

Typical Household

| Appliance | Starting Watts | Running Watts |
|-----------------------------------|----------------|---------------|
| Dishwasher | | |
| Cool Dry | 1400 | 700 |
| Hot Dry | 1400 | 1450 |
| Electric Range | | |
| 6-inch Element | 0 | 1500 |
| 8-inch Element | 0 | 2100 |
| Microwave Oven (625 watts) | 800 | 625 |
| Refrigerator or Freezer | 2200 | 700 |
| Automatic Washer | 2300 | 1150 |
| Clothes Dryer | | |
| Gas | 1800 | 700 |
| Electric | 1800 | 5750 |
| Garage Door Opener | | |
| 1/4 HP | 1100 | 550 |
| 1/2 HP | 1400 | 725 |
| Furnace Fan (Gas/Fuel Oil) | | |
| 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 |
| Lights | 0 | As Indicated |
| Radio | 0 | 50–200 |
| Well Pump | | |
| 1/3 HP | 1400 | 750 |
| 1/2 HP | 2100 | 1000 |
| Sump Pump | | |
| 1/3 HP | 1300 | 800 |
| 1/2 HP | 2150 | 1050 |
| Central Air Conditioner | | |
| 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



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
#907 532
 115/230 V with 20-foot torch. Cuts up to 3/8-inch mild steel. See Lit. Index No. PC/9.1.

Spark Arrestor #195 351
 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.

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 #258 078

Field For Yamaha MZ300 and MZ360. Tune-up kit includes 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.

GFCI Receptacles #300 880 Field Kit contains two GFCI 120 VAC duplex receptacles. (240 VAC GFCI receptacle not required).

Ordering Information

| Equipment and Options | Stock No. | Description | Qty. | Price |
|---------------------------|-----------|--|------|-------|
| Blue Star® 145 DX | #907 590 | Yamaha engine, with 120 V GFCI receptacles | | |
| Blue Star® 185 DX | #907 591 | Yamaha engine, with 120 V GFCI receptacles | | |
| GFCI Receptacles | #300 880 | Field | | |
| Accessories | | | | |
| 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 | | | |
| Remote Oil Drain Kit | #224 831 | Quick connect for easy engine maintenance. <i>(Order from Miller Service Parts)</i> | | |
| Receptacle Kit | #088 297 | 6-ft. cord with 240 V plug. <i>(Order from Miller Service Parts)</i> | | |
| 240 V Electrical Plug | #213 380 | For use with 240 V receptacle. <i>(Order from Miller Service Parts)</i> | | |
| Engine Tune-Up Kit | #258 078 | Includes spark plug and engine filter. <i>(Order from Miller Service Parts)</i> | | |
| Stick Accessories | | | | |
| Weld Leads | #300 836 | Includes 50-ft., No. 2 electrical cable and holder, 50-ft. work cable with clamp and lug | | |
| Plasma Accessories | | | | |
| Spectrum® 375 | #907 532 | 115/230 V, 20-ft. torch. See Lit. Index No. PC9.1 | | |

Date:

Total Quoted Price:



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