

Blue Star® 3500

140 Ampere, 3500 Watt, Compact, Portable, Gasoline Engine Driven Welding Generator



Processes

 **DC Stick (DC SMAW) Welding**

 **Non-Critical DC TIG (DC GTAW) Welding**



Shown with CSA receptacle covers.

The Blue Star® 3500 is a compact welding and power generator designed for applications where portability and versatility are essential. This unit is ideal for construction, maintenance and agriculture applications.

Features

Benefits

140 amps DC welding output	Excellent DC Stick performance with most electrodes, ideal for 3/32–5/32 in (2.5–4 mm).
3500 watts of generator power	Easily powers most tools at the job site. Duplex receptacles are circuit breaker protected.
Compact, portable unit protected by a durable steel frame	Two people can easily pick up and carry this unit using the durable tubular frame. Protective frame allows unit to withstand use in the harshest environments.
Single-range amperage control	Quick, easy weld amperage setting.
Three-phase welding output	Produces a smooth stable welding arc for premium performance.
Powered by industrial-grade OHV engines	Provides durable and reliable performance.
Electric or manual start models	Versatility to meet the needs of end users who prefer electric and/or manual actuation.
Circuit breakers	Protection for the generator and the users' tools.
Low-oil protection	Unit shuts down for self protection if oil is low.
Dual oil drain and fill	Eases access for maintenance and oil check.
Muffler/spark arrestor	Produces lower noise with added safety.
Engine mounted throttle	Saves fuel and reduces noise.
Cast iron cylinder sleeve	Increases durability and life.
Miller's True Blue® Warranty	The warranty has been extended on engine driven welding generators to 3 years—parts and labor. Engine is warranted separately by the engine manufacturer.

Machine Specifications *(Subject to change without notice.)*



Rated Output	Amperage Range	Single-Phase Generator Power	Dimensions	Honda Recoil Start	Honda Electric Start
140 A, 25 V at 30% duty cycle	40–140 amps	3500 watts (3.5 kVA/kW)	H: 20-3/4 in (527 mm) W: 22-3/4 in (577 mm) D: 31-1/4 in (793 mm)	Net: 201 lb (91 kg) Ship: 225 lb (102 kg)	Net: 226 lb (103 kg) Ship: 250 lb (113 kg)

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

Engine Brand	Model	Horsepower and Displacement	Type	Start Ignition	Fuel/Oil Capacity	Engine Speed
Honda	GX270	9 HP at 3600 RPM, 270 cc	1 cylinder, 4-cycle, OHV air-cooled	Electric or manual recoil	Fuel: 1.6 gal (6 L), Oil: 1.16 qt (1.1 L)	3720 RPM

Ordering Information  See back page.



Miller Electric Mfg. Co.
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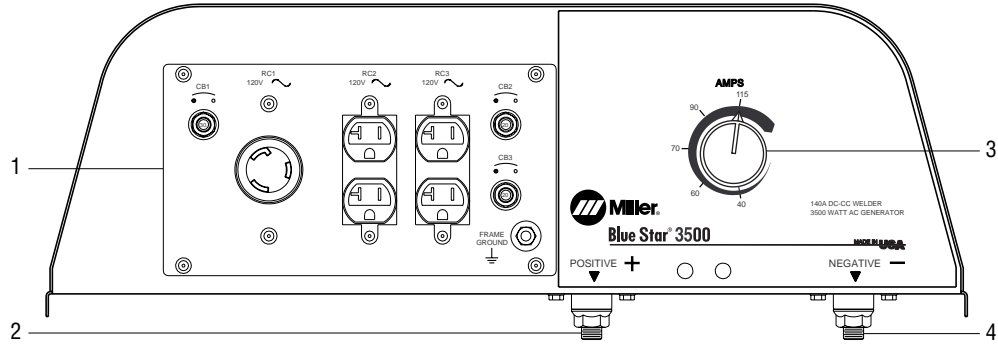
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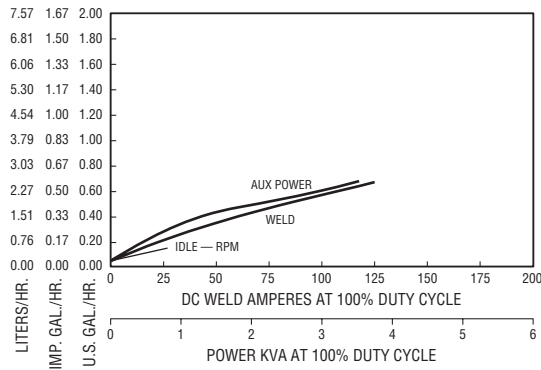
Control Panel

1. Generator Power Panel
2. Positive DC Welding Output Terminal
3. Amperage Control
4. Negative DC Welding Output Terminal



Performance Data

FUEL CONSUMPTION (Honda-Powered Units)



TYPICAL HOUSEHOLD POWER USAGE

Appliance	Starting Watts	Running Watts
Dishwasher		
Cool Dry	1400	700
Hot Dry	1400	1450
Electric Range		
6 in element	0	1500
8 in 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 or 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		
10000 BTU	2200	1500
20000 BTU	3300	2500
24000 BTU	4950	3800
32000 BTU	6500	5000
40000 BTU	7800	6000

TYPICAL CONTRACTOR TOOLS POWER USAGE

Tool	Starting Watts	Running Watts
Hand Drill		
1/4 in	350	350
1/2 in	600	600
Circular Saw		
6 1/2 in	500	500
8 1/4 in	1400	1400
Table Saw 10 in	6300	1800
Band Saw 14 in	2500	1100
Air Compressor		
1/2 HP	3000	1000
1 1/2 HP	8200	2200
Electric Chain Saw		
1/2 HP, 12 in	1100	1100
2 HP, 14 in	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 INDUSTRIAL MOTORS POWER USAGE

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 FARM EQUIPMENT POWER USAGE

Machine	Starting Watts	Running Watts
Portable Conveyor 1/2 HP	3400	1000
Milker (Vacuum Pump) 2 HP	10500	2800
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

To select a generator that has enough power output in watts, add the watts for the items you want to simultaneously run. Tools and appliances with induction motors may require 3–7 times the listed wattage when starting. All data listed is approximate — check your tool/appliance for specific wattage requirements.

Options and Accessories

Lifting Eye #043 829

Protective Cover #195 193

Blue. L: 32 in, W: 24 in, H: 20 in.

No. 24H1 Hand Running Gear #043 720

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

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.

Matching Plugs *(Order from Service Parts)*

#088 898 4-prong twistlock plug, 3P4W, 30 A

#173 296 3-prong twistlock plug, 2P3W, 30 A

#073 690 Straight plug, 120 V, 2P3W, 15 A

Ordering Information and System Checklist

Equipment and Options	Stock No.	Description	Qty.	Price
Blue Star® 3500 w/ Manual (Recoil) Start	#903 582	Honda engine, 120 V duplex, 120 V twistlock receptacles		
	#903 582-01-5	Honda engine, 120 V duplex, 120 V twistlock receptacles, CSA		
Blue Star® 3500 w/ Electric Start	#903 583	Honda engine, 120 V duplex, 120 V twistlock receptacles		
Stick Accessories				
Weld Leads	#195 195	Includes 50 ft, No. 2 electrode cable and holder, 50 ft work cable with clamp and lug		
Stick Electrodes				
TIG Accessories				
TIG Torch				
Consumables				
Tungsten				
Miscellaneous				
Matching Plugs*	#088 898	4-prong twistlock plug, 3P4W, 30 A		
	#173 296	3-prong twistlock plug, 2P3W, 30 A		
	#073 690	Straight plug, 2P3W, 120 V, 15 A		
Lifting Eye	#043 829	Field		
Protective Cover	#195 193			
No. 24H1 Hand Running Gear	#043 720			
Helmet/Gloves				
Date:			Total Quoted Price:	

*Order from Service Parts.



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