# **PRO 300**

### Engine-Driven Welder/ AC Generator



### Quick Specs

### **Industrial Applications**

Pipe Welding Structural General Fabrication

#### **Processes**

Stick (SMAW)
MIG (GMAW)
Flux Cored (FCAW)
Lift-Arc DC TIG (GTAW)
Air Carbon Arc (CAC-A)
thru 1/4 in (6.4 mm) carbons

Output Range For Stick/TIG 20-410 A For MIG 14-40 V

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

400 A, 23 V 9.2 kW, 30% Duty Cycle 300 A, 32 V 9.6 kW 60% Duty Cycle

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

12,000 Watts Peak 10,000 Watts Continuous

**Weight** Net: 1100 lb (499 kg) Ship: 1150 lb (452 kg)

# The Power of Blue®

The PRO 300 is ideal for the independent rig owner or fleet manager who values reliability, multiprocess, excellent arc quality, portability, and economy.

**Dual digital weld ammeter and voltmeter are standard.** Amps and volts can be set using the weld meter.

**Tailored Arc Control (DIG)** allows the arc characteristics to be changed for specific applications and electrodes. Smooth running 7018 or stiffer, more penetrating 6010 electrodes.

**Simple-to-set controls** require no elaborate procedure — just select process and weld!

**Auto Remote Sense (ARS)** detects if a remote control is plugged into the 14-pin receptacle and eliminates confusion of the remote/panel switch.

**Lift-Arc starts** provide DC TIG arc starting without the use of high frequency.

**Low OCV** is a simple design that reduces the open-circuit voltage to 41 V when the welding machine is not in use. This built-in control eliminates the need for add-on voltage reducers. Does not affect arc starts.



Standard features include: Stick, Lift-Arc™ TIG, Flux Cored and MIG. Other features include digital preset weld meters, output contactor control, and automatic idle.



**CATERPILLAR industrial engine** designed to operate over 10,000 hours before the first basic overhaul. Backed

by worldwide CAT support and service.

Low-speed industrial diesel engine (1800 RPM) offers long service intervals, long engine life and low operating expenses.

Quiet at only 73 dba at 23 ft (98 Lwa) at maximum output. Improves work site communication and safety.

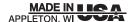
Marine-grade ignition switch is sealed and protected from water and dust. One switch controls engine operation.

**High efficiency:** 3-phase welding generator requires less fuel/energy to operate.

Thermal overload protection prevents machine damage if the duty cycle is exceeded or airflow is blocked.



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





### Miller Electric Mfg. Co.

An Illinois Tool Works Company 1635 West Spencer Street Appleton, WI 54914 USA

#### International Headquarters

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www.MillerWelds.com



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





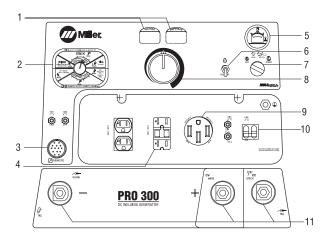
Weld Mode	Weld Output Range	Weld Output Rated at 104° F (40° C)	Max. Open- Circuit Voltage	Generator Power Output Rated at 104° F (40° C)	Dimensions	Net Weight (without fuel)*
CC/DC	20-410 A	400 A, 23 VDC, 30% Duty Cycle 300 A, 32 VDC, 60% Duty Cycle	41	12,000 Watts Peak 10,000 Watts Continuous	H: 32 in (813 mm) W: 26 in (660 mm)	Net: 1100 lb (499 kg) Ship: 1150 lb (522 kg)
CV/DC	14-40 V			Single-phase, 120/240 VAC, 83/42 A 60 Hz	D: 56 in (1422 mm)	

<sup>\*</sup>Additional 99 lb (45 kg) when fuel tank is full.

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

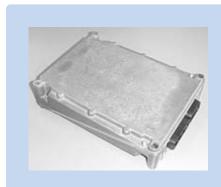
Engine Brand	Features	НР	Туре	Engine Speeds	Fuel Capacity	Oil Capacity	Coolant Capacity	Automatic Engine Shutdown
CATERPILLAR 3013C	EPA Tier 2 indirect-injected liquid-cooled engine. 73 dB @ 23 ft (98 Lwa) full load (65 dB when idle). Right side service access with intervals of 250 hrs for oil and filters.	22	3-cylinder, industrial liquid-cooled, diesel	1850 RPM (1250 RPM when idle)	11.5 gal (43.5 L)	6 qt (5.7 L)	6 qt (5.7 L)	Oil Pressure Coolant Temperature

### **Control Panel**



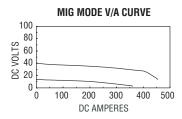
- 1. Digital Voltmeter and Ammeter
- 2. Process Selector/Arc Controller
- 3. 14-Pin Remote Receptacle
- 4. 120 V, 20 A GFCI Duplex Receptacle
- **5.** Fuel Gauge/Hour Meter/ Engine Shutdown Indicator

- 6. Engine Preheat Switch
- 7. Ignition Switch
- 8. Amperage/Voltage Adjust Control
- 9. 120/240 V, 50 A Receptacle (NEMA 14-50)
- 10. Generator Power Circuit Breakers
- 11. Output Terminals



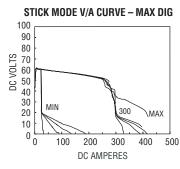
The Vault—ultimate control board reliability. Hardened solid-state control technology, housed in a sealed vault. The vault's sealed connections are made through watertight plugs that make these components impenetrable to dust and moisture.

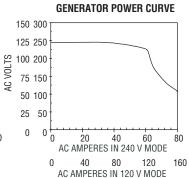
### **Performance Data**



#### SIMULTANEOUS WELDING AND POWER

Weld Amperes	Total Power Available(Watts)	120 V	240 V
225	0	0	0
175	3000	25	13
125	5500	46	23
75	8500	71	35
25	10,000	83	42





## PUEL CONSERVATION CURVE

2.00
1.75
1.75
1.50
1.25
0.75
0.50
0.25
0.00
0 50 100 150 200 250 300 350 400
DC WELD AMPERES
AT 100% DUTY CYCLE



### **Genuine Miller Accessories**

**Cold Weather Starting Aid #195 056** Field 120 V block heater.

Note: All models come standard with preheaters (glow plugs).

Spark Arrestor (Muffler) Kit #195 291 Field Prevents particles from leaving the muffler that could potentially start a fire. Mandatory when operating on California grasslands, brush, or forest-covered land, and all national forests. For other areas, check your state and local laws.

### FA-1D Lockable Flame Arrestor Fuel Cap #043 947

Fuel cap can be padlocked to prevent vandalism. A built-in flame arrestor prevents flames or sparks from entering the fuel tank.

**Protective Cover #195 301** Field Blue with Miller logo. Waterproof cover resists stains and mildew, and protects the finish of your welder. Cannot be used with roll cage option.

### **Remote Controls**

Extension Cords for 14-Pin Remote Controls or 24 VAC Wire Feeders #122 973 25 ft (7.6m) #122 974 50 ft (15.2m) #122 975 75 ft (22.9m)



RHC-14 Hand Control #129 340 Miniature hand control for remote current and contactor control. Dimensions: 4 x 4 x

3-1/4 in (102 x 102 x 82 mm). Includes 20 ft (6 m) cord and 14-pin plug.



**RFCS-14 HD Foot Control** #194 744 Foot current and contactor control. 20 ft (6 m) cord and 14-pin plug.



RCCS-14 Remote Contactor and Current Control #043 688 North/south rotary-motion fingertip control fastens to torch using Velcro® straps.

26.5 ft (8 m) cord and 14-pin plug.

### MIG (GMAW) or Flux Cored (FCAW)



SuitCase™ 8VS Wire Feeder #194 890 SuitCase™ X-TREME™ 12VS Wire Feeder #195 500

Lightweight, portable, voltage-sensing wire feeders include secondary contactor and gas valve. Require drive roll kit. See Lit. Index No. M/6.4, M/6.41.



SuitCase™ 8RC Wire Feeder #194 938 SuitCase™ 12RC Wire Feeder #194 940 Lightweight, modular design and flexible enough to run a variety of wires up to .062 in diameter. Comes standard with remote voltage control. See Lit. Index No. M/6.5.

MIG (GMAW)/Flux Cored (FCAW) Guns Miller produces a complete line of dependable MIG guns. See Lit. Index Nos. AY/15.0, AY/16.0 and AY/17.0.

## Trailers and Hitches (Note: Trailers are shipped unassembled.)



### Mid-Frame Trailer #195 481

1500 lb (680 kg) capacity highway trailer. Welded steel tubing frame, heavy-duty axle with roller bearing hubs and leaf-spring suspension. Comes with jack stand, and safety chain (order hitch separately).

Ball Hitch, 2 in #195 493

Lunette Eye 2-1/2 in (64 mm) #043 824

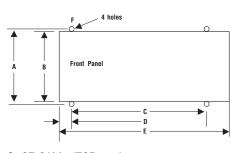
Fender Kit #195 482

**Light Kit** #195 483 Requires fender kit.

Cable Tree #195 023

Provides an area to conveniently wrap weld cables and extension cords.

### **Mounting Specifications**



- **A.** 27-3/4 in (705 mm)
- **B.** 26 in (660 mm)
- **C.** 52 in (1321 mm)
- **D.** 2 in (51 mm)
- **E.** 56 in (1422 mm)
- **F.** 9/16 in (14 mm) dia.

**Height:** 32 in (813 mm) **Width:** 26 in (660 mm) **Depth:** 56 in (1422 mm)



# Trailer Specifications (Subject to change without notice.)

Model	Gross Axle Weight Rating	Gross Vehicle Weight Rating	Net Payload	Height of Bed	Road Clearance	Track (Center to center of tires)	Standard Tires (Standard rating or P-size rating)	Dimensions	Net Weight
Mid-	1500 lb	1666 lb	1425 lb	18-1/2 in	6-1/2 in	45 in	B78-13	L: 98 in (2489 mm)	245 lb
Frame	(680 kg)	(775 kg)	(645 kg)	(470 mm)	(165 mm)	(1143 mm)		W: 52 in (1321 mm)	(110 kg)

# **Ordering Information**

Stock No.	Description	Qty.	Price
#907 144 #907 144-01-1	CAT CC/CV CAT CC/CV, 120 V Block Heater		
#195 056	Field, 120 V block heater		
#195 291	Field		
#043 947	Field		
#195 301	Field		
#129 340	Hand control		
#194 744	Foot control		
#043 688	Remote contactor and current control		
#122 973	25 ft (7.6 m)		
#122 9/5	75 ft (22.9 m)		
#194 890	See Lit Index No. M/6.4		
#195 500	See Lit Index No. M/6.41		
#194 938	See Lit Index No. M/6.5		
#194 940	See Lit Index No. M/6.5		
	See Lit Index Nos. AY/15.0, AY/16.0 and AY/17.0		
#195 481	Order hitch separately		
#195 493			
#043 824			
#195 482			
#195 483	Requires fender kit		
#195 023			
	#907 144 #907 144-01-1  #195 056 #195 291 #043 947 #195 301  #129 340 #194 744 #043 688 #122 973 #122 974 #122 975  #194 890 #195 500 #194 938 #194 940  #195 481 #195 482 #195 482 #195 483	#907 144 #907 144-01-1  CAT CC/CV CAT CC/CV, 120 V Block Heater  #195 056 #195 291 Field #043 947 #195 301  Field  #129 340 Hand control #194 744 Foot control #043 688 Remote contactor and current control #122 973 #122 974 50 ft (15.2 m) 75 ft (22.9 m)  #194 890 See Lit Index No. M/6.4 #195 500 See Lit Index No. M/6.5 See Lit Index No. AY/15.0, AY/16.0 and AY/17.0  #195 481 Order hitch separately #195 482 #195 483 Requires fender kit	#907 144

Date: Total Quoted Price:



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