Classic® 300G

300 Amp DC Gasoline Engine Driven Welder

Some construction crews and pipeliners just prefer to work with a gasoline engine — it’s easier to start in cold weather. So, when you need up to 350 amps for larger diameter electrodes and prefer the traditional smooth, high-performance arc that Lincoln copper-wound pure DC generator welders produce, consider asking for the Classic 300G welder made especially for demands like this!

Advantage Lincoln

- 300 amps @ 60% duty cycle. Welds up to 7/32” (5.6mm) low hydrogen electrode.
- 3000 watts of AC 230 or 115 volt 60 hertz auxiliary power.
- Pure DC generator welding arc is preferred by pipeliners and contractors for precise code consistency.
- All copper windings enhance arc stability for that really smooth high performance arc.
- Five current ranges with overlap for stick pipe welding and other processes where slope control is desired. Fine-tuning within each range.
- Quiet, smooth-running, 4-cylinder, water-cooled General Motors® industrial gasoline engine.
- Large displacement engine for reserve power.
- Fuel injection for more efficient fuel consumption.
- Custom Arc™ — Dial in the Right Arc, Right Now. 100 RPM high idle (DCV) adjustment range — enhanced fine tuning for performance on pipe! (See inside.)
- Local/Remote switch and receptacle are factory installed.
- Three year warranty on parts and labor (engine warranted separately by engine manufacturer).

Recommended General Options

Power Plug Kit, GFCI Receptacle Kit, Medium Welder Trailer, Oil Drain Kit

Recommended Stick Options

Accessory Kit, Remote Control Kit

Recommended TIG Options

TIG Module, PTA-26V Pro-Torch™ TIG Torch, Magnum® TIG Torch Parts Kit, Control Cable, Arc Start Switch, Contactor Kit, Control Cable Extension, Water Valve Kit

Recommended Wire Feeder Options

Wire Feed Module, LN-25 Wire Feeder, Remote Voltage Control Kit, Magnum® 350 Innershield Gun (for LN-25), Drive Roll Kit, Magnum® 300 MIG Gun (for LN-25), LN-23P Wire Feeder, LN-23P Adapter Kit, Magnum® 250 Innershield Gun (for LN-23P), 62º Gun Tube for Pipe Welding, Magnum SG Spool Gun, SG Control Module, Input Cable

Order

K1754-1 Classic 300G

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Rated Output Current/Voltage/Duty Cycle</th>
<th>Output Range</th>
<th>Type of Engine</th>
<th>HP &amp; Speed (rpm)</th>
<th>Dimensions H x W x D (inches)</th>
<th>Net Weight lbs. (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classic 300G</td>
<td>250A DC / 30V / 100% 300A DC / 32V / 60%</td>
<td>40-350 DC 3000 watts AC Auxiliary Power</td>
<td>General Motors 3.0 L L4 Gasoline</td>
<td>53.5 hp 1800</td>
<td>45.5 x 24 x 66.3 (1156 x 610 x 1700)</td>
<td>1330 (603)</td>
</tr>
</tbody>
</table>

(1) With Optional Wire Feed Module.
A CLOSER LOOK

PERFORMANCE

Arc Performance
• 300 amps @ 60% duty cycle. Welds up to 7/32" (5.6mm) low hydrogen electrode.
• Pure DC generator welding arc is preferred by pipeliners and contractors for precise control of the arc in demanding code applications.
• Custom Arc™ — 100 RPM High Idle (OCV) Adjustment Range — enhanced fine tuning for performance on pipe.
• All copper windings enhance arc stability for that really smooth high performance arc.

Generator Performance
• 3,000 total watts of AC power from a 115V or 230V duplex receptacle for power tools & lights.
• Circuit breaker protection. 115V AC 20 amp breakers will operate up to a 9" grinder.
• Weather-protected receptacle covers.
• Optional K1690-1 GFCI Ground Fault Circuit Interrupter (GFCI) kit available for added safety.

Use the High Idle (OCV) engine speed adjustment dial to change the heat input to the arc:
• Set the arc in the machine’s “sweet spot”.
• Dial in a softer or more digging arc.
• Reduce root pass internal undercut, especially on X60 and X70 pipe.
• Stack iron faster with low heat and a clear puddle on fill passes.
• Avoid arc breaks. Avoid slag that crowds the arc.
• Control fusion on the cap pass with good puddle size and clarity.

DC WELD OUTPUT CURVE
CLASSIC 300G
GM 3.0 L4 ENGINE
MAXIMUM & MINIMUM RHEDSTAT

GM 3.0 L Engine RPM set at 1800 and electronically controlled.
RECOMMENDED OPTIONS

FUEL CONSUMPTION
CLASSIC 300G
GM 3.0 L4 ENGINE

- Quiet, smooth-running, 4-cylinder, water-cooled General Motors® industrial gas engine.
- Large displacement engine for reserve power.
- Fuel injection for more efficient fuel consumption.
- Gauges indicate oil pressure, engine temperature and battery charging amps.
- Engine hour meter to track scheduled maintenance.
- 15 gallons (57 ltrs) fuel capacity to work an extended day without refueling.
- Optional Wire Feed Module for CV-wire welding. Increases productivity and reduces welding costs. Recommended wire feeders include LN-25 or LN-15 Across-the-Arc models. Module has 14-pin connector for Lincoln wire feeders that use a control cable with 110V AC input: LN-25, LN-23P, LN-7, LN-7 GMA and LN-8. Built-in contactor for "cold-tip" electrode. (When CV wire welding with optional Wire Feed Module, idler may need to be set to "high" position for low current processes.)
- Optional K924-5 Remote Control Kit for stick welding (for Classic 300G codes 10912 and higher). Includes Remote Box and 100 ft. cable. Make fine current adjustments up to 100 ft. from the machine.
- Compact size for installation on truck beds.
- Optional road trailer system is available:
  - K953-1 Trailer
  - K958-1 2" Ball Hitch
  - K958-2 Lunette Eye Hitch
  - K958-1 Fender & Light Kit
  - K965-1 Cable Storage Rack
A CLOSER LOOK

Key Controls

1. Current Range Selector
2. Idler Control
3. On/Off Switch
4. Engine Protection Light
5. 230V AC Receptacles & Cover
6. 230V Circuit Breakers @ 15 Amps each
7. Battery Charging Ammeter
8. Engine Temperature Gauge
9. Engine Oil Pressure Gauge
10. Fine Current Adjustment
11. Engine Hour Meter
12. Start Button
13. Local/Remote Receptacle
14. Local/Remote Control Switch
15. 115V AC Receptacles & Cover
16. 115V Circuit Breakers @ 20 Amps each

QUALITY AND RELIABILITY

- Automatic shutdown protection for low oil pressure or high water temperature.
- Electronic engine idler extends engine life and reduces fuel consumption.
- Single-side engine access for easy routine maintenance.
- Attractive and durable pearlescent gray finish paint.
- Three year Lincoln warranty. (engine is warranted separately by the manufacturer).
- Manufactured under a quality system certified to ISO 9001 requirements.
- Approved by Canadian Standards Association (CSA).
# A CLOSER LOOK

## MACHINE SPECIFICATIONS

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Ordering Information</th>
<th>Description</th>
<th>Rated DC Output (1)</th>
<th>DC Current Adjustment Range</th>
<th>Auxiliary Power (2)</th>
<th>Dimension &amp; Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classic® 300G</td>
<td>K1754-1</td>
<td>300 Amp DC Arc Welder</td>
<td>NEMA Ratings 250A / 50V / 100% 300A / 32V / 60% 96V DC MAX OCV</td>
<td>40 - 350 Amps 220 - 600 Max 160 - 240 80 - 130 Min - 90</td>
<td>3,000 Watts 60 Hz, 4C 26 Amps @ 110V 13 Amps @ 230V</td>
<td>45.5 x 24.0 x 66.9 in (1156 x 610 x 1700mm) 1330 lbs. (603 kg)</td>
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</tbody>
</table>

(1) Based on a 10 min. period.
(2) 110V will operate either 60 Hz, or 50/60 Hz power tools, lights, etc.
(3) Height is to top of exhaust elbow.

## ENGINE SPECIFICATIONS

<table>
<thead>
<tr>
<th>Engine Model</th>
<th>Description</th>
<th>Horsepower &amp; Displacement</th>
<th>Ignition</th>
<th>Capacities</th>
<th>Fuel Consumption</th>
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</thead>
<tbody>
<tr>
<td>General Motors® (Gasoline) 3.0 L L4 (4)</td>
<td>4 Cylinder 4 Cycle Water-Cooled Gasoline Engine Fuel Injection</td>
<td>53.0 HP @ 1800 RPM 183.0 cu in (3.0 ltrs)</td>
<td>Delco® Viking High Energy Distributor Type Electronic</td>
<td>FUEL: 15 Gals (57 Ltrs)</td>
<td>FULL LOAD 300A</td>
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<td>OIL: 5.0 Qts (4.7 Ltrs)</td>
<td>HIGH IDLE 1,800 RPM</td>
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<td>COOLANT: 5.0 Qts (9.4 Ltrs)</td>
<td>LOW IDLE 1,360 RPM</td>
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(4) Engine warranty is 1 year/2,000 hours.
RECOMMENDED OPTIONS

GENERAL OPTIONS

Power Plug Kit
Provides two 115V plugs rated at 20 amps each, and two 230V plugs rated at 15 amps each. 115V plugs may not be compatible with NEMA common household receptacles.
Order K802D

GFCI Receptacle Kit
Includes one UL approved 115V ground fault circuit interrupter duplex type receptacle and installation instructions. Replaces the factory installed 115V duplex receptacle. Each receptacle of the GFCI duplex is rated at 20 amps. Maximum total current from the GFCI duplex is limited to 20 amps.
Order K1690-1

Medium Welder Trailer
For heavy-duty road, off-road, plant and yard applications. Includes wheeled jack, safety chains, 14" wheels, and large rear bumper. Stiff 3/16" steel frame, E-Coated and powder painted for rust & corrosion resistance. Low sway suspension gives outstanding stability with manageable tongue weight. E-Z Lube™ Axle-pack wheel bearings with a grease gun. 57" max. width for stability with easy tracking.
Order:
K953-1 Trailer
K958-1 2" Ball Hitch
K958-2 Lunette Eye Hitch
K959-1 Fender & Light Kit
K965-1 Cable Rack

Oil Drain Kit
Includes drain valve, hose and clamp to direct used oil beyond the base of the machine.
Order K2261-1

STICK OPTIONS

Accessory Kit
Includes 35 ft. (10.7m) 2/0 electrode and 30 ft. (9.1m) 2/0 work cables, headshield, work clamp, and electrode holder.
Order K704

Remote Control Kit
Contains remote control rheostat, and 100 ft. (30.5m) control cable.
Order K524-5

TIG OPTIONS

TIG Module
Portable, high frequency unit with gas valve for TIG welding. Rated at 300 amps/60% duty cycle.
Order K930-2

PTA-26V TIG Torch
Air-Cooled 200 amp torch equipped with valve for gas flow control. 25 ft. length.
Order K1783-9

Magnum Parts Kit for PTA-26V TIG Torch
Magnum Parts Kit provides all the torch accessories you need to start welding. Parts kit provides collets, collet bodies, a back cap, alumina nozzles and tungstens in a variety of sizes, all packaged in an easy to carry reclosable pack.
Order KP509

Control Cable
Used to connect welder to the TIG Module.
Order K936-4

Arc Start Switch
Needed if an Amptrol is not used when TIG welding. Comes with a 25 ft. (7.6m) cable. Attaches to the TIG torch for convenient finger control.
Order K814

Contactor Kit
For use with TIG Module and Classic 300G.
Order K938-1

Control Cable Extension
Allows the TIG Module to be operated at distances up to 200 ft. (61.9m) from the power source. 45 ft. (13.7m) length.
Order K937-45

Water Valve Kit
For use with a water-cooled TIG torch. Installs inside of TIG Module.
Order K844-1
**RECOMMENDED OPTIONS**

**WIRE FEEDER OPTIONS**

**Wire Feed Module**
Provides constant voltage (CV) output with excellent arc stability for Innershield welding and MIG welding. Easy installation. Recommended wire feeders are the LN-25 and the LN-23P.
Order K623-1

**LN-25 Wire Feeder**
Portable CC/CV unit for flux-cored and MIG welding. Includes Gas Solenoid & Internal Contactor. Requires Wire Feed Module.
Order K449

**Remote Control Voltage Kit for LN-25**
Provides 25 ft. (7.5m) of remote output voltage control and output jumper (2 and 4) for machines having 14 pin MS-type connector.
Order K444-2

**Magnum® 350 Innershield® Gun (for LN-25)**
For self-shielded wire with 15 ft. (4.5m) cable. For .062-3/32" (1.6-2.8mm) wire.
Order K126-2

**Drive Roll and Guide Tube Kit (for LN-25, LN-23P)**
For .068-3/32" (1.8-2.4mm) cored or solid steel wire.
Order KP653-3/32

**Magnum® 300 MIG Gun**
For .035-.045" (0.9-1.2mm) gas-shielded wire with 15 ft. (4.5m) cable. LN-25.
Order K1802-1 (includes Connector Kit)

**Drive Roll and Guide Tube Kit (for LN-25)**
For .035-.040" (0.9-1.0mm) solid steel wire.
Order KP653-035S

**LN-23P Wire Feeder**
Portable CV unit for Innershield pipe welding. Control cable operates contactor inside Wire Feed Module for “cold” electrode. Requires LN-23P Adapter Kit (K350-1) and Gun and Cable Assembly.
Order K316L-1

**WIRE FEEDER CONT.**

**LN-23P Adapter Kit**
Required to adapt LN-23P to any Lincoln power source. Makes 14 pin connection at power source.
Order K350-1

**Magnum® 250 Innershield Gun (for LN-23P)**
For lighter weight and easier handling. Rated 250 amps, 60% duty cycle. For .068 through 5/64" (1.7 through 2.0 mm) Innershield wire and includes reduced speed switch. For pipe welding, a KP1909-1 62° gun tube is recommended.
Order K355-10

**62° Gun Tube for Pipe Welding**
Order KP1909-1

**Magnum SG Spool Gun**
Hand held semiautomatic wire feeder. Requires SG Control Module.
Order K487-25

**SG Control Module**
The interface between the power source and the spool gun. Provides control of the wire speed and gas flow. For use with a spool gun.
Order K488

**Input Cable**
(For SG Control Module)
For Lincoln engine power sources with 14-pin MS-type connection, separate 115V NEMA receptacles and output stud connections.
Order K691-10
### CLASSIC 300G ORDER FORM

<table>
<thead>
<tr>
<th>PRODUCT DESCRIPTION</th>
<th>ORDER NUMBER</th>
<th>QUANTITY</th>
<th>PRICE</th>
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</thead>
<tbody>
<tr>
<td>CLASSIC 300G</td>
<td>K1754-1</td>
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<tr>
<td>RECOMMENDED GENERAL OPTIONS</td>
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<tr>
<td>Power Plug Kit (20 Amps)</td>
<td>K802D</td>
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<tr>
<td>GFCI Receptacle Kit</td>
<td>K1690-1</td>
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<tr>
<td>Medium Welder Trailer</td>
<td>K953-1</td>
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<tr>
<td>- Ball Hitch</td>
<td>K958-1</td>
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<tr>
<td>- Lunette Eye Hitch</td>
<td>K958-2</td>
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<tr>
<td>- Fender &amp; Light Kit</td>
<td>K959-1</td>
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<tr>
<td>- Cable Rack (fits K953-1)</td>
<td>K965-1</td>
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<tr>
<td>Oil Drain Kit</td>
<td>K2261-1</td>
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<td>RECOMMENDED STICK OPTIONS</td>
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<tr>
<td>Accessory Kit</td>
<td>K704</td>
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<tr>
<td>Remote Control</td>
<td>K924-5</td>
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<td>RECOMMENDED TIG OPTIONS</td>
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<td>TIG Module</td>
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<tr>
<td>Magnum® Pro-Torch™ TIG Torch</td>
<td>K1783-9</td>
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<td>Magnum® TIG Torch Parts Kit</td>
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<td>Control Cable (required)</td>
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<tr>
<td>Arc Start Switch (required)</td>
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<td>Contactor Kit (required)</td>
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<td>Control Cable Extension</td>
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<td>Water Valve Kit</td>
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<td>RECOMMENDED WIRE FEEDER OPTIONS</td>
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<td>Wire Feed Module</td>
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<td>LN-25 Wire Feeder</td>
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<td>Remote Voltage Control Kit</td>
<td>K449-2</td>
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<tr>
<td>Magnum® 350 Innershield® Welding Gun</td>
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<tr>
<td>Drive Roll and Guide Tube Kit for LN-25, LN-23P</td>
<td>K9523-3/32</td>
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<tr>
<td>Magnum® 300 MIG Gun — for LN-25 (includes Connector Kit)</td>
<td>K1802-1</td>
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<td>Drive Roll and Guide Tube Kit (LN-25)</td>
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<td>LN-23P Wire Feeder</td>
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<td>- LN-23P Adapter Kit</td>
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<tr>
<td>Magnum® 250 Innershield® Welding Gun</td>
<td>K355-10</td>
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<tr>
<td>62° Gun Tube for Pipe Welding</td>
<td>KF1900-1</td>
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<tr>
<td>Magnum® Sg Spool Gun</td>
<td>K487-25</td>
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<tr>
<td>- SG Control Module</td>
<td>K488</td>
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<tr>
<td>Input Cable (for SG Control Module)</td>
<td>K691-10</td>
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</tbody>
</table>

**TOTAL:**

### CUSTOMER ASSISTANCE POLICY

The business of The Lincoln Electric Company is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may seek Lincoln Electric for advice or information about their use of our products. We respond to our customers based on the best information in our possession at that time. Lincoln Electric is not in a position to warrant or guarantee such advice, and assumes no liability, with respect to such information or advice. We expressly disclaim any warranty of any kind, including any warranty of fitness for any customer’s particular purpose, with respect to such information or advice. As a matter of practical consideration, we also cannot assume any responsibility for updating or correcting any such information or advice once it has been given, nor does the provision of information or advice create, expand or alter any warranty with respect to the sale of our products.

Lincoln Electric is a responsive manufacturer, but the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service requirements.

*Subject to Change – This information is accurate to the best of our knowledge at the time of printing. Please refer to www.lincolnelectric.com for any updated information.*