Output

Input

躑

Ranger[®] 250 LPG

250 Amp DC LPG Engine **Driven Welder**

The Ranger® 250 LPG is ready for a workout - all day, everyday! Intended for use in environments where gasoline and diesel emissions are unacceptable. This tough Lincoln LPG (liquid propane gas) fuel welder/generator delivers 250 amps for welding at 100% duty cycle. The Ranger[®] 250 LPG is recommended for stick welding, including a separate. dedicated downhill pipe mode, as well as Touch-Start[™] DC TIG, fluxcored and MIG wire welding and arc gouging. Lincoln GR. Chopper Technology provides easy starts, an extremely smooth arc, low spatter and outstanding bead appearance. The sleek, enclosed case lowers noise and protects critical engine components. Hot looks, hot features, hot performance — That's the Ranger[®] 250 LPG!

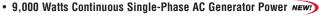
Now with 10,000 watts **NEW**) of peak AC generator power and 9,000 watts **NEW**) of continuous power. Use peak power for starting and running motors. The 9.000 watts of continuous power also makes this a versatile product for a Lincoln plasma cutter, Lincoln inverter, lights, tools or emergency power.

Processes

Stick, TIG, MIG, Flux-Cored, Gouging

Advantage Lincoln

- LPG Engine-Driven Welder
 - A powerful 250 amp DC CC/CV LPG engine driven welder. All rated outputs at 100% duty cycle 104°F (40°C).
- 25 HP Kohler[®] LPG Engine NEW?)
 - Increase from 20 HP to 25 HP.
 - 2-cylinder, 4-cycle OHV (overhead valve) air-cooled.
- Multi-Process Welding
 - Excellent DC multi-process welding for general purpose stick. downhill pipe (stick), TIG, cored-wire, MIG (CO2 and blended gas) and arc gouging with carbons up to 3/16" in diameter.
- Superior Arc Performance
 - Lincoln's *E*. Chopper Technology provides easy starts, a smooth arc, low spatter and excellent bead appearance.
- 10,000 Watts Peak Single-Phase AC Generator Power NEW.)
 - 1.000 watts more!
 - Use peak power for motor starting



1,000 watts more!

KOHLER

- For high capacity needs such as a back-up generator, powering a Pro-Cut[®] plasma cutter, or Invertec[®] inverter welder.
- Also for lights, a grinder or other power tools.
- Skewed Rotor Design
 - Skewed rotor design provides AC power suitable for operating Lincoln Pro-Cut[®] plasma cutters and inverter power sources. Lincoln was first in the welding industry with this feature.
- One-Pak® Package
 - Convenient way to order a welding system. See inside.
- Three-Year Warranty
 - Three-year Lincoln warranty (parts and labor) on welder. (Engine is warranted separately by the engine manufacturer).

TECHNICAL SPECIFICATIONS							
Product Name	Rated Output Current/Voltage/Duty Cycle	Output Range	Engine Model	No. of Cyl.	HP & Speed (rpm)	Dimensions H x W x D inches (mm)	Net Weight Ibs (kg)
Ranger 250 LPG	250A DC CC/28V/100% 250A DC CV/28V/100% 275A DC CV/27V/60%	20-250A DC 40-250A Pipe 20-250A DC TIG 14-28V CV 10,000 watts peak 9,000 watts cont.	Kohler OHV Command CH730 LP	2	25 @ 3600	36.2 x 21.5 x 42.3 (920 x 546 x 1073)	482 (218)



Publication E6.104 1/07 www.lincolnelectric.com

A CLOSER LOOK

PERFORMANCE

Welding Performance

- · Provides superior DC arc welding performance for stick, TIG, cored-wire, MIG and arc gouging.
- Lincoln Chopper Technology.
- Easy Starts.
- Smooth Arc.
- Low Spatter.
- Excellent Bead Appearance.
- · Downhill Pipe welding mode is excellent for cellulosic electrodes such as Fleetweld 5P+. Fast travel speeds, especially on fill passes. Arc control adjustment for a softer, buttery arc, or a more forceful, digging arc.
- Arc Force control provides a soft or more forceful digging arc in CC-stick or downhill pipe mode and inductance/pinch control in CV wire mode.
- Built-in "hot" start for easier starts and restrikes minimizing the electrode "sticking" to the work.
- Touch-Start DC TIG[™] lift tungsten to start the arc. No high frequency required. Avoids tungsten contamination in the weld. Voltage sensing output stops the arc when the torch is lifted at the end of the weld - increased weld quality.
- Arc gouging with up to 3/16" (4.8 mm) carbons.

FEATURES

- Flip down control panel door keeps less frequently used dials out of your way!
- · Single, full-range output control dial. No more confusion with taps and controls!
- 4 welding modes: CC-Stick, Downhill Pipe, CV-Wire and Touch-Start TIG™ (eliminates the need for high frequency equipment and avoids tungsten contamination!).
- Output at welding terminals controlled by electronic contactor. Can be switched to "On", or to "Remotely Controlled".
- Remote output control is auto-activated when plugged into a 6-pin connector.



AC Generator Performance

- 10,000 watts NEW) peak AC generator power. Use for motor starting.
- 9,000 watts new) continuous AC generator power. For high capacity needs such as a back-up generator, powering a Pro-Cut® plasma cutter or an Invertec® inverter welder. Also for lights, a grinder or other power tools.
- Two 120V 20A GFCI (ground fault circuit interrupter) duplex receptacles with weather resistant covers. Circuit breaker protection for tools, including up to a 9" grinder.
- Up to 33 amps at 240V from the 120V/240V receptacle with weather resistant covers. Circuit breaker protection.
- Maximum generator power (while not welding) is available at any weld dial setting.
- · Skewed rotor design provides AC power suitable for operating Lincoln Pro-Cut® plasma cutters and Invertec® inverter power sources.

Welding Output (Amps)	Continuous Power (Watts)
250	2200
200	3800
150	5100
100	6600
0	9000

SIMULTANEOUS WELDING AND POWER LOADS

- · Compatible with many Lincoln wire feeders including the LF-72, LF-74, LN-7, LN-7 GMA, LN-8, LN-15, LN-25, LN-35, LN-742 and Cobramatic[™] wire feeders. Also compatible with the Magnum
- Wire feed voltmeter switch sets wire feeder voltmeter to proper polarity.
- Top-of-the-line LPG (Liquid Propane Gas) OHV (overhead valve) engine. Kohler 25 HP Command® 100.9 dB sound power (Lwa) at rated load. Sound level = 76.5 dBA at 23 ft. (7m).
- · Includes LPG supply hose with coupler for easy connection to the liquid draw outlet of an LP-Gas cylinder.
- · Lower noise than partially-enclosed and unenclosed welders of comparable size. Listen for yourself and hear the difference!
- · Electric start.
- Oil drain valve (no tools required) with extension tube.

Key Controls

- 1. Hour Meter
- 2. Output Control Dial

SG and Prince Spool Guns.

- 3. Weld Mode Switch
- 4. Arc Force & Inductance/ Pinch Control
- 5. Circuit Breakers
- 6. 120 Volt AC GFCI Receptacles (NEMA 5-20R)
- 7. Output Stud Covers
- 8. Ground Stud
- 9. 120/240 Volt AC Full KVA Receptacle (NEMA 14-50R)
- 10. 6-pin Remote Control & 14-pin Feeder Connectors
- 11. Wire Feeder Voltmeter Polarity Switch
- 12. Weld Terminals Control Switch
- 13. Idler Control Switch
- 14. Pushbutton Start Switch
- 15. Engine Choke Control
- 16. Run/Stop Switch

Ranger® 250 LPG

QUALITY AND RELIABILITY

- Fully enclosed case for engine protection and lower noise.
- Oil dip stick, filters, spark plugs, etc. are easily accessed with left, right and top engine doors. Left and right doors are removable for service.
- Adjust exhaust direction with top-mounted 360° rotatable exhaust muffler Muffler made from aluminized steel for long life.
- Red and black powder paint finish offers increased durability with added protection from rust and corrosion. Also ultraviolet resistant to better retain color and gloss.
- Longer engine life, reduced noise emissions and greater fuel economy with automatic engine idler.
- Conveniently located engine maintenance label under top engine door.

- Automatic engine shutdown protection for low oil pressure.
- Reliable start-up with Group 58 battery with 435 cold cranking amps.
- Dependability and long life aided by all-copper windings in rotor and stator with high quality insulation.
- Approved by Canadian Standards Association (CSA).
- Manufactured under a quality system certified to ISO 9001 requirements and ISO 14001 environmental standards.
- Three-year Lincoln warranty (parts and labor) on welder. (Engine is warranted separately by the manufacturer.)

			MACHINE SPECIFIC	CATIONS		
Product Name	Ordering Information	Description	CC/Pipe-Rated Output Current/Voltage/Duty Cycle	CV-Rated Output Current/Voltage/Duty Cycle	Generator e AC Power (2)(3)	Dimension & Weight H(5) x W x L
Ranger 250 LPG (Kohler)	K2336-2	250 Amp DC Multi-Process Arc Welder with Lincoln → Chopper Technology 10,000 Watts Peak → 9,000 Watts Continuous AC Power	DC Constant Current 250A/ 28V/ 100% 20-250A DC Pipe Current 250A/28V/100% 40-250A Touch-Start TIG™ 250A/30V/100% 20-250A Single-Dial Continuous Control 60V DC Max OCV @ 3700 RPM	DC Constant Voltage (1) 250A / 28V / 100% 275A / 27V / 60% 14-28 V Single-Dial Continuous Control Wire Feeder Power 42V, 60Hz, 15 Amps 120V, 60Hz, 20 Amps	9,000 Watts Peak 60Hz. Full KVA <u>Receptacle</u> 33A@ 240V 33A@ 120V ea. Branch Circuit (4) Four 120V <u>Receptacles</u> 20A per Duplex 40A Total (4)	36.2 x 21.5 x 42.3 in (920 x 546 x 1073 mm) 482 lbs (218 kg)

(1) DC constant voltage capability provides convenience and added safety when welding in electrically hazardous conditions.

(2) When welding, available auxiliary power will be reduced. Output voltage is within +\- 10% at all loads up to rated capacity.

(3) 120V will operate either 60 Hz or 50/60 Hz power tools, lights, etc.

(4) Circuits cannot be wired in parallel to operate the same device.

(5) Height is to top of exhaust elbow. Enclosure height is 30" (762 mm).

ENGINE SPECIFICATIONS

Engine Model	Description	Horsepower & Displacement	Ignition	Capacities	Operating Speeds	Fuel Consumption
Kohler OHV Command CH730 LP	2 Cylinder, 4 Cycle, OHV Air-Cooled	25 HP @ 3600 RPM	Electric Start, Group 58 Battery,	FUEL: LP-Gas (6)	FULL LOAD 3,500 RPM (250A)	8.3 Lbs/Hr 4.0 Kg/Hr
NEW!	LPG Engine Aluminum Alloy with Cast Iron Liners	44.0 cu in (725 cc)	435 Cold Cranking Amps, Push Button Start Switch, Manual Choke	0IL: 2.0 Qts (1.9 Ltrs)	HIGH IDLE 3,700 RPM	4.8 Lbs/Hr 2.2 Kg/Hr
	LPG Regulator and Vaporizer	(120 00)		2.0 4.0 (1.0 2.1.0)	LOW IDLE 2,400 RPM	2.5 Lbs/Hr 1.1 Kg/Hr

(6) Liquid draw required from LP-Gas cylinder. The Ranger 250 LPG includes an LPG supply hose with coupler

for easy connection to the liquid draw outlet of an LP-Gas cylinder.



SYSTEM SELECTION

One-Pak[®] Welding Packages

Order a Lincoln One-Pak[®] and get everything you need to complete a welding package - all with one order number. **(Packages are not assembled.)**

Each UNASSEMBLED Package Contains:

- Ranger® 250 LPG (K2336-2)
- Factory Undercarriage (K1770-1)
- Welding Gas Cylinder/LPG Tank Holder (K1745-1)
- LPG Tank Strap (K2361-1)
- Accessory Kit (K704)
- 1/8" 7018 Excalibur® Six 10 lb. Easy Open Cans (ED028482)

Order: K2371-2





K2361-1 LPG Tank Strap

Ranger® 250 LPG



K1770-1 Factory Undercarriage



K1745-1 Welding Gas Cylnder/ LPG Tank Holder



K704 Accessory Kit



1/8" 7018 Excalibur Electrode



Ranger 250 LPG with factory undercarriage, welding gas cylinder/LPG tank holder and LPG tank strap. (LPG tank not supplied by Lincoln Electric.)







GENERAL OPTIONS

Power Plug Kit

Provides four 120V plugs rated at 20 amps each, and one dual voltage, full KVA plug rated at 120/240V, 50 amps. 120V plug may not be compatible with common household receptacles.

Order K802N

Power Plug Kit

Provides four 120V plugs rated at 15 amps each, and one dual voltage, full KVA plug rated at 120/240V, 50 amps. 120V plug is compatible with common household receptacles. **Order K802R**



Full-KVA Power Plug One dual voltage plug rated at 120/240V, 50 amps. NEMA 14-50P Order T12153-9

Spark Arrestor Kit Attaches between muffler and exhaust elbow. Virtually eliminates spark emissions. Order K1898-1

Canvas Cover

To protect the engine drive when not in use. Made from attractive red canvas material that is flame retardant, mildew resistant and water repellent. **Order K886-2**



Factory Undercarriage For moving by hand on smooth

surface floors. Heavy-duty, puncture-resistant tires and front caster. Convenient steering handle. Order K1770-1



Welding Gas Cylinder/ LPG Tank Holder

Holds welding gas cylinder or LPG tank (for products with LPG engine). For LPG: Use first holder for LPG tank and second holder for welding gas cylinder. Both holders will attach to the K1770-1 undercarriage **Order K1745-1**

LPG Tank Strap



Mounts to K1745-1 gas cylinder holder (required) to secure LPG tank. (K1770-1 also required.) Order K2361-1













GENERAL OPTIONS CONT.

Cable Carrier Kit

Holds up to two 100 ft. (30.5 m) lengths of #2/0 or smaller cable. Includes holder tray for electrodes or miscellaneous items. For use with K1770-1 undercarriage. **Order K1739-1**

STICK OPTIONS

Accessory Kit

For Stick welding. Includes 35 ft. (10.7 m) #2/0 electrode cable with lug, 30 ft. (9.1 m) #2/0 work cable with lugs, headshield, filter plate, work clamp and electrode holder. 400 amp capacity. Order K704

Accessory Kit

For Stick welding. Includes 20 ft. (6.1 m) #6 electrode cable with lug, 15 ft. (4.6 m) #6 work cable with lugs, headshield, filter plate, work clamp, electrode holder and sample pack of mild steel electrode. 150 amp capacity. **Order K875**

Remote Output Control

Consists of a control box with choice of two cable lengths. Permits remote adjustment of output. **Order K857** for 25 ft. (7.6 m) **K857-1** for 100 ft. (30.5 m)

TIG OPTIONS

Pro-Torch® PTA-26V TIG Torch

Air-cooled 200 amp torch equipped with valve for gas flow control. 25 ft. (7.6 m) 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**



TIG OPTIONS CONT.

Hand Amptrol®

Provides 25 ft. (7.6 m) of remote current control for TIG welding. (6 pin plug connection). Velcro straps secure torch. Order K963-3 (one size fits all

Pro-Torch TIG Torches)



Foot Amptrol®

Varies current while welding for making critical TIG welds and crater filling. Depress pedal to increase current. Depressing pedal fully achieves maximum set current. Fully raising the pedal finishes the weld and starts the afterflow cycle on systems so equipped. Includes 25 ft. (7.6m) control cable. Order K870



Precision TIG[®] 225 Ready-Pak[®] For AC TIG welding with square wave performance, use the AC generator of the engine-driven welder to supply the power. Easy setup. Includes torch, foot amptrol, gas regulator and hose. Requires the K1816-1 Full KVA adapter kit. Order K2535-1



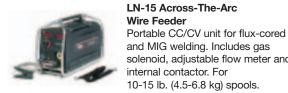
Invertec[®] V205-T AC/DC **One-Pak® Package** For AC TIG welding with square

wave performance, use the AC generator of the engine-driven welder to supply the power. Easy setup. Includes torch, parts kit. regulator and hose kit, Twist-Mate torch adapter, work cable with Twist-Mate end and foot Amptrol™. Requires the K1816-1 full KVA adapter kit. Order K2350-1



Full - KVA Adapter Kit Provides convenient connection of Lincoln Electric equipment having a 240V AC 1-phase plug (NEMA 6-50P) to the full-KVA receptacle on engine-driven welders. Order K1816-1







MS-type connector. Order K444-2



Magnum[®] 350 Innershield[®] Gun (for LN-25, LN-15) For self-shielded wire with 15 ft.

WIRE FEEDER OPTIONS

Portable CC/CV unit for flux-cored

and MIG welding. Includes gas solenoid and internal contactor. For

and MIG welding. Includes gas

10-15 lb. (4.5-6.8 kg) spools.

Remote Voltage Control

Provides 25 ft. (7.6 m) of remote output control (and output jumper 2 and 4) for machines having 14-pin

solenoid, adjustable flow meter and

spools up to 44 lbs. (20 kg).

LN-25 Wire Feeder

Order K449

Wire Feeder

Order K1870-1

(for LN-25)

(4.5 m) cable. For .062-3/32" (1.6-2.4 mm) wire. Order K126-2



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





Drive Roll and Wire Guide Kit (for LN-15) For 1/16" (1.6 mm) cored wire. Order KP1697-1/16C

Gun Receiver Bushing (for LN-15) For use with K126-2 Magnum[®] 350 Innershield[®] Gun. Order K1500-1



WIRE FEEDER OPTIONS CONT.



Magnum[®] 300 MIG Gun (for LN-25, LN-15) For .035-.045" (0.9-1.2 mm) gasshielded wire with 15 ft. (4.5 m) cable.

LN-25 Order K1802-1 (includes Connector Kit) LN-15 Order: K470-2 Magnum 300 MIG Gun K466-10 Connector Kit



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





Magnum[®] SG Spool Gun Hand held semiautomatic wire

Drive Roll and Wire Guide Kit

For .035" (0.9 mm) solid steel wire.

(for LN-15)

Order KP1696-035S

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



PLASMA CUTTING

Pro-Cut[®] 55

Cuts metal using the AC generator power from the enginedriven welder. Maximum cut thickness is 1/2" (13 mm). Requires the K1816-1 Full KVA Adapter kit. **Order K1580-1**

Full-KVA Adapter Kit

Provides convenient connection of Lincoln Electric equipment having a 240V AC 1-phase plug (NEMA 6-50P) to the full-KVA receptacle on engine-driven welders. **Order K1816-1**



RANGER[®] 250 LPG ORDER FORM

PRODUCT DESCRIPTION	ORDER NUMBER	QUANTITY	PRICE
RANGER® 250 LPG (KOHLER OHV LPG ENGINE)	K2336-2		
RANGER® 250 LPG ONE-PAK® PACKAGE	K2371-2		
RECOMMENDED GENERAL OPTIONS			
Power Plug Kit (20 amp)	K802N		
Power Plug Kit (15 amp)	K802R		
Full KVA Power Plug	T12153-9		
Spark Arrestor Kit	K1898-1		
Canvas Cover	K886-2		
Undercarriages	1000 2		
Factory	K1770-1		
- Welding Gas Cylinder/LPG Tank Holder (for K1770-1)	K1745-1		
- LPG Tank Strap (for K1745-1)	K2361-1		
- Cable Carrier Kit (for K1770-1)	K1739-1		
	R1739-1		
RECOMMENDED STICK OPTIONS			
Accessory Kit, 400 amp	K704		
Accessory Kit, 150 amp	K875		
Remote Output Control, 25 ft.	K857		
Remote Output Control, 100 ft.	K857-1		
RECOMMENDED TIG OPTIONS			
Pro-Torch® PTA-26V TIG Torch®, 25 ft.	K1783-9		
Hand Amptrol [®] (all Pro-Torch TIG torches)	K963-3		
Foot Amptrol [®]	K870		
Magnum [®] Parts Kit	KP509		
Precision TIG [®] 225 Ready-Pak [®]	K2535-1		
Invertec® V205-T AC/DC One-Pak® Package (for AC TIG welding)	K2350-1		
- Full KVA Adapter Kit (required for K2535-1 and K2350-1)	K1816-1		
RECOMMENDED WIRE FEEDER OPTIONS LN-25 Wire Feeder with Contactor, Solenoid	K449		
,			
LN-15 Across-The-Arc Wire Feeder	K1870-1		
Remote Voltage Control (for LN-25)	K444-2 K126-2		
Magnum® 350 Innershield® Gun (for LN-25, LN-15)			
Drive Roll and Guide Tube Kit (for LN-25)	KP653-3/32		
Drive Roll and Wire Guide Kit (for LN-15)	KP1697-1/16C		+
Gun Receiver Bushing (for LN-15 and K126-2)	K1500-1		
Magnum® 300 MIG Gun	1/1000 1		
- for LN-25 (includes Connector Kit)	K1802-1		
- Magnum® 300 MIG Gun (for LN-15)	K470-2		
- Connector Kit (for LN-15)	K466-10		
Drive Roll and Guide Tube Kit (for LN-25)	KP653-035S		
Drive Roll and Wire Guide Kit (for LN-15)	KP1696-035S		
Magnum [®] SG Spool Gun	K487-25		
- SG Control Module (required)	K488		
- Input Cable (required for SG Control Module)	K691-10		
RECOMMENDED PLASMA CUTTING OPTIONS			
Pro-Cut™ 55	K1580-1		
Full-KVA Adapter Kit (required)	K1816-1		
	TOTAL:		1

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 ask 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 orce 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 responsible 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.

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THE LINCOLN ELECTRIC COMPANY

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