

# OUTBACK<sup>®</sup> 185

## Processes

Stick

## Product Number

K2706-1

*See back for complete specs*

## Output Range

50-185A DC Welding  
5,700 Watts Peak AC Generator  
5,200 Watts Continuous AC Generator

## Rated Output Current/Voltage/Duty Cycle

100A DC/25V/100%  
130A DC/25V/60%  
150A DC/25V/20%

## Number of Cylinders

1

## HP@ Speed (RPM)

12.75 HP @ 3,600 RPM

## Weight/Dimensions (H x W x D)

310 lbs. (141 kg)  
25.5 x 21.1 x 31.5 in  
(647 x 536 x 800 mm)

## Built for the Outdoors!<sup>™</sup>

Great for anyone who needs portable DC stick welding and AC generator power! The Low-Lift<sup>™</sup> grab bars on both ends make lifting the Outback<sup>®</sup> 185 on and off truck beds easy. The compact Outback<sup>®</sup> 185 is easy to start with all engine controls on the front of the machine, and it's easy to use for welding. Use the AC generator power for a grinder, work lights, a pump, motor starting or emergency power with the large 6.8 gallon (25.7 liter) fuel tank! Plug in a Lincoln POWER MIG<sup>®</sup> 140C or POWER MIG<sup>®</sup> 180C for wire welding too!

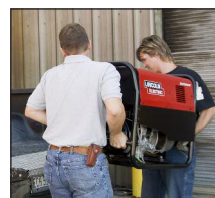
### FEATURES

- ▶ **Low-Lift<sup>™</sup> Grab Bars (Patent Pending)**
  - More leverage for lifting unit on and off truck beds!
  - Extra protection against product damage.
  - Best in class feature!
- ▶ **All Engine Controls on Front Control Panel**
  - Easy access for starting, especially when mounted on truck beds.
  - Front panel includes electric start switch and engine choke control.
  - Best in class feature!
- ▶ **1-1/4 in. (32 mm) Diameter Rugged Tube Frame**
  - Great for all-around sturdy protection.
  - Best in class feature!
- ▶ **6.8 Gallon (25.7 Liter) Fuel Tank**
  - Less frequent re-fueling, for extended run times.
  - Large fuel fill opening for easy re-fueling too!
  - Best in class feature!
- ▶ **Weld with up to 5/32 in. (4 mm) Stick Electrode**
  - Up to 185 amps of DC output for many applications!
- ▶ **5,700 Watts Peak AC Generator Power (5,200 Watts Continuous).**
  - Many uses! Grinder, work lights, pump, motor starting, or emergency power.
  - Plug in a Lincoln<sup>®</sup> POWER MIG<sup>®</sup> 140C or POWER MIG<sup>®</sup> 180C for wire welding!



### APPLICATIONS

- ▶ Service Trucks
- ▶ Fence Contractors
- ▶ Maintenance Crews
- ▶ Farmers
- ▶ Ranchers



### INPUT



### OUTPUT



Powered By:

**KOHLER**



Two Year Extended  
Warranty Available in  
U.S.A. and Canada



## ARC PERFORMANCE

- Up to 185 amps of smooth DC welding output for welding steel, stainless steel, cast iron or hardfacing projects with up to 5/32" (4 mm) stick electrode. Choose from a broad range of electrodes including Lincoln Excalibur® 7018 (AWS E7018) and Fleetweld® 5P+ (AWS E6010).
- Single, full range calibrated welding output dial makes it simple to dial in the best current for your repair, maintenance or fabrication project. Dial also includes operating ranges for 3/32 in. (2.4 mm), 1/8 in. (3.2 mm) and 5/32 in. (4 mm) electrode.

## AC GENERATOR PERFORMANCE

- Delivers up to 21.6 amps continuous power from the 240V AC receptacle, and up to 40 amps continuous power from the 120V AC duplex receptacle.
- Plug in a low-cost Lincoln® POWER MIG® 140C or POWER MIG® 180C compact wire feeder welder directly to an Outback® 185 (no adapters needed) for high-productivity welding. Weld with flux-cored or MIG wire on steel and stainless steel. Weld aluminum with the MIG process using the optional Magnum® 100SG spool gun.
- All outlets are circuit breaker protected and have weather protective covers.
- Optional GFCI (Ground Fault Circuit Interrupter) Kit available for additional protection from electric shock.

### GENERATOR POWER APPLICATION CHART

Suggested Power Applications	Running Watts (Continuous)	Start-Up Watts(1) (Peak)
Airless Sprayer - 1/3 HP	600	1,500 - 2,400
Electric Motor - 1 HP	1,000	2,500 - 4,000
Portable Grinder (7")	2,000	
Halogen Work Light	500	
Hand Drill - 3/8"	700	
Heater	1,750	
Submersible Pump - 1 HP	1,000	2,500 - 4,000
Sump Pump	600	1,500 - 2,400
Lincoln Wire Feeder/Welder	4,800	

(1) Equipment with unusually high START-UP WATTS is listed. For start-up of other tabled equipment that uses a motor, allow up to 2 times the RUNNING WATTS shown above. Multiple loads can be used as long as the total load does not exceed 5,200 watts continuous.

Note: Wattage listing is approximate. Check your equipment for actual wattage.

## FEATURES



- Low-Lift™ grab bars give more leverage than similar products for lifting the Outback® 185 on and off truck beds and other high surfaces. Grab bars also provide extra protection against product damage.
- 1-1/4 in. (32 mm) diameter rugged tube has holes in base cross members for easy truck mounting.
- 6.8 Gallon (25.7 Liter) fuel tank has large fuel fill opening for easy refueling.
- Fuel gauge in fuel cap to easily monitor the fuel level.
- Automatic engine idler for greater fuel economy, longer engine life and reduced noise.

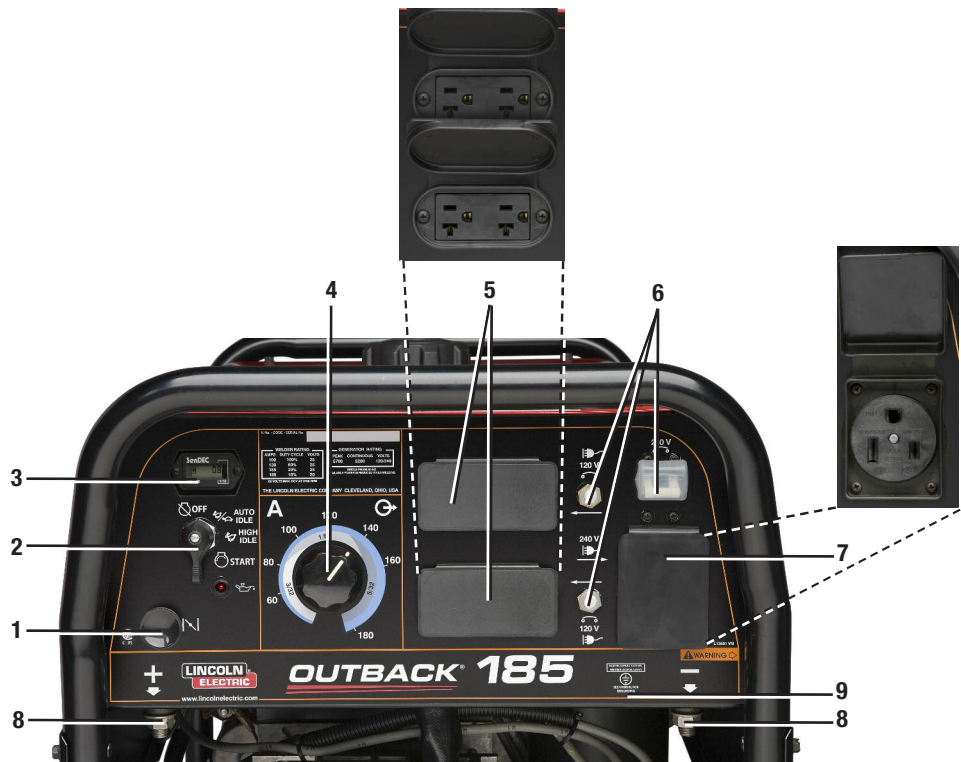
- Kohler 12.75 HP Model CS 12.75 OHV (overhead valve) gasoline engine with:
  - Electric start with recoil start backup for a weak battery.
  - Cast iron cylinder liner for long engine life.
  - Automatic shutdown for low oil level.
  - 3 Year Kohler® engine warranty.
- Electric start switch for easy starts. Switch combines OFF, START and IDLE functions into one simple, compact, easy to use switch.
- Easy to maintain engine with oil changes only every 100 hours. No oil filter to change.
- Hour meter on control panel to monitor run time for scheduled engine maintenance (see next page).
- Noise at rated load:
  - 103.3 dB Sound Power (Lwa)
  - 78.7 dBA Sound Level at 23 ft. (7 m)
- Optional undercarriage has puncture-proof (foam filled) tires for durability and easy transport. Fold down handles for easy storage when not needed, and convenient holders for wrapping welding output cables.
- Optional lift bail kit for lifting the machine with a fixed lifting point.

## QUALITY AND RELIABILITY

- Welding and AC generator outputs rated at 104° F (40° C).
- Dependability and long life aided by all-copper windings in rotor and stator with high quality insulation.
- Red and black powder paint finish offers increased durability with added protection from rust and corrosion. Ultraviolet resistant to better retain color and gloss.
- Manufactured under a quality system certified to ISO 9001 requirements.
- Three-year Lincoln warranty on parts and labor. (Engine is warranted separately by the manufacturer).
- Canadian Standards Association (CSA) certified.

## KEY CONTROLS

1. Engine Choke Control (Stainless Steel Cable)
2. Engine Start Switch with Idler Control
3. Engine Hour Meter
4. Output Control Dial
5. 120 Volt AC Receptacles (NEMA 5-20R)
6. Circuit Breakers
7. 240 Volt AC Receptacle (NEMA 6-50R)
8. Output Studs
9. Grounding Stud



## MACHINE SPECIFICATIONS

Product Name	Ordering Information	Description	CC Rated Output Current/Voltage/Duty Cycle	Generator AC Power <sup>(1)</sup>	Dimensions H x W x L inches (mm)	Weight lbs. (kg)
Outback® 185	K2706-1	185 Amp DC Arc Welder with 5,700 Watts Peak 5,200 Watts Continuous AC Power	DC Constant Current 100A DC/25V/100% 130A DC/25V/60% 150A DC/25V/20%  Current Range 50-185 A Max. OCV@ 3750 RPM 80V RMS	5,700 Watts Peak 5,200 Continuous 60 Hz, 120V/240V AC <sup>(2)</sup> Single Phase 100% Duty Cycle Circuit Breaker Protection  120V Duplex Receptacles 20 Amps Each 40 Amps Total <sup>(3)</sup>  240V Receptacle 21.6 Amps	25.5 x 21.1 x 31.5 (647 x 536 x 800)	310 (141)

(1) When welding, available auxiliary power will be reduced.

(2) 120V will operate either 60 Hz, or 50/60 Hz power tools, lights, etc.

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

## ENGINE SPECIFICATIONS

Product Name	Description	Horsepower & Displacement	Ignition	Capacities	Operating Speeds	Weight lbs. (kg)
Kohler® CS 12.75 <sup>(4)</sup>	1 Cylinder, 4 Cycle, Overhead Valve Air Cooled, Gasoline Engine Aluminum Alloy, Cast Iron Liner	12.75 HP @ 3,600 RPM 22.0 cu in (360 cc)	Electric Start with Recoil Start Included, Manual Choke; On/Off Switch	FUEL: 6.8 Gals (25.7 Ltrs)  OIL: 1.2 Qts (1.1 Ltrs)	FULL LOAD 3,400 RPM	0.87 Gals./Hr 3.29 Ltrs./Hr
					HIGH IDLE 3,750 RPM	0.40 Gals./Hr 1.53 Ltrs./Hr
					LOW IDLE 1,825 RPM	0.14 Gals./Hr 0.52 Ltrs./Hr

(4) Kohler® warranty is three years.

## PRODUCT SPECIFICATIONS

Product Name	Rated Output Current/Voltage/Duty Cycle	Output Range	Engine Model	Number of Cylinders	HP@ Speed (rpm)	Dimensions H x W x D inches (mm)	Net Weight lbs. (kg)
Outback® 185	100A DC/25V/100% 130A DC/25V/60% 150A DC/25V/20%	50-185A DC 5,700 Watts Peak 5,200 Watts Continuous	Kohler® CS 12.75	1	12.75 @ 3,600	25.5 x 21.1 x 31.5 (647 x 536 x 800)	310 (141)

## RECOMMENDED ACCESSORIES AND OPTIONS

### GENERAL OPTIONS

#### 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**



#### Spark Arrestor Kit

Attaches to muffler exhaust tube. Virtually eliminates spark emissions.  
**Order K2793-1**



#### Undercarriage

Puncture-proof (foam filled) tires for durability and easy transport. Long handles with comfortable non-slip grips for easy lifting. Handles fold down for storage when not needed. Convenient holders for wrapping welding output cables.  
**Order K2722-1**



#### Lift Bail Kit

Easily installed kit for lifting the machine with a fixed lifting point.  
**Order K2819-1**



#### Canvas Cover

To protect the Outback® 185 when not in use. Made from attractive red canvas material that is flame retardant, mildew resistant and water repellent.  
**Order K2804-1**

#### GFCI Receptacle Kit

Includes one UL approved 120V ground fault circuit interrupter duplex type receptacle and installation instructions. Replaces the factory-installed 120V 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. Two kits required.  
**Order K1690-1**



### WIRE FEEDER OPTIONS

#### POWER MIG® 140C

Premium compact wire welder with continuous voltage control for MIG and flux-cored welding. 30 to 140 amp output range. Get input power from the AC generator of the engine driven welder. Add the K2532-1 Magnum® 100SG Spool Gun for aluminum MIG welding  
**Order K2471-1**



#### POWER MIG® 180C

Premium compact wire welder with continuous voltage control for MIG and flux-cored welding. 30 to 180 amp output range. Get input power from the AC generator of the engine driven welder. Add the K2532-1 Magnum® 100SG Spool Gun for aluminum MIG welding  
**Order K2473-1**



#### Magnum® 100SG Spool Gun

Designed to easily feed 4 in. (102 mm) diameter 1 lb. (0.45 kg) spools of .030 in. (0.8 mm) or .035 in. (0.9 mm) diameter SuperGlaze® aluminum MIG wire. Includes gun, adapter kit, .035 in. (0.9 mm) contact tips (qty. 3), gas nozzle, and a 1 lb. (0.45 kg) spool of SuperGlaze® 4043 .035 in. (0.9 mm) MIG wire. Packaged in a convenient carrying case.  
**(Requires POWER MIG® 140C or 180C)**  
**Order K2532-1**

For best welding results with Lincoln Electric equipment, always use Lincoln Electric consumables.  
Visit [www.lincolnelectric.com](http://www.lincolnelectric.com) for more details.

### 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 information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

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](http://www.lincolnelectric.com) for any updated information.

**LINCOLN**  
**ELECTRIC**  
THE WELDING EXPERTS®