rehlko

# Model - KCS/KCP/KCC
## Automatic Transfer Switches Standard Any Breaker Rated

### Available Controllers
- Decision-Maker® MPAC 1200
- Decision-Maker® MPAC 1500

### Ratings

| Model | Current | Voltage, Frequency |
|---|---|---|
| KCS 400A. | 30-4000 amps | 208-600 VAC 50/60 Hz |
| KCP | 150-4000 amps | |
| KCC | 150-4000 amps | |

### Transfer Switch Standard Features
- UL 1008 listed
  file #E58962 (automatic), #E86894 (non-automatic)
- CSA certification available
- IBC and OSHPD seismic certification available
- Available in 2, 3, or 4 pole configurations
- Integral solid neutral provides line-to-neutral monitoring
- Electrically operated, mechanically held mechanism
- High withstand and close-on ratings
- Design suitable for emergency and standby applications on all classes of load, 100% tungsten rated through 400 amps
- Silver alloy main contacts
- Gold-flashed engine start contacts rated 2 amps @ 30 VDC/250 VAC
- Front-accessible contacts for easy inspection
- Front-replaceable main and arcing contacts (800-4000 amps)
- Reliable, field-proven solenoid mechanism
- Switching mechanisms lubricated for the expected life of the transfer switch
- Internal manual operating handle
- Main shaft auxiliary position-indicating contacts rated 10 amps @ 32 VDC/250 VAC
- NEMA type 1, 12, 3R, 4, and 4X enclosures available
- Standard one-year limited warranty. Extended limited warranties are available.

### Standard-Transition Models (KCS)
- Standard-transition operation with either automatic or non-automatic control
- Standard-transition transfer time less than 100 milliseconds (6 cycles @ 60 Hz)
- Double-throw, mechanically interlocked design (break-before-make power contacts)
- Solid, switched, or overlapping (make-before-break) neutral

### Programmed-Transition Models (KCP)
- Programmed-transition operation with either automatic or non-automatic control
- Programmed-transition operation provides a center OFF position that allows residual voltages in the load circuits to decay
- Programmable OFF time
- Double-throw, mechanically interlocked design (break-before-make power contacts)
- Solid or switched neutral

### Closed-Transition Models (KCC)
- Closed-transition transfer switches operate with no power interruption during transfer and retransfer between two live sources
- Source parallel times are less than 100 milliseconds (6 cycles @ 60 Hz)
- Adjustable extended transfer time relay (ensure that the setting complies with applicable codes)
- Solid or switched neutral


© 2026 Discovery Energy, LLC - All rights reserved.



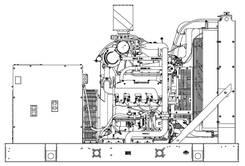
rehlko

# Industrial Generator Set - KG150
## 208-600 V Gas

***EPA Certified for Stationary Emergency and Non-Emergency Applications***
Standby Rating – Stationary Emergency Applications

### Ratings Range

| | | 60 Hz |
|---|---|---|
| **Standby:** | **kW** | 135-150 |
| | **kVA** | 135-188 |



### Generator Specifications
Orderable Generator Model Number: GMKG150-A

### Standard Features
- One-source responsibility for the generating system and accessories.
- The generator set and its components are prototype-tested, factory-built, and production-tested.
- The generator set offers a cULus listing (UL 2200 and CSA C22.2 No. 100).
- The generator set accepts rated load in one step.
- The 60 Hz generator set meets NFPA 110, Level 1, when equipped with the necessary accessories and installed per NFPA standards.
- A 2-year warranty covers all generator set systems and components.
  - Extendable to a five-year comprehensive warranty with a registered service contract through a distributor, dealer, or authorized service representative.
- Five-year basic, five-year comprehensive, and 10-year major component limited warranties are also available for purchase in some jurisdictions.
- Dual fuel model features:
  - Natural gas is the primary fuel. Automatically transfers back to primary fuel when LPG fuel becomes low or generator stops and restarts.
  - The reset knobs in the controller box provide the ability to transfer back to natural gas manually.
  - Automatic dual-fuel NG/LP system is available.

### Generator Set Ratings

| Alternator | Voltage | Ph | Hz | Natural Gas 130°C Rise Standby Rating kW/kVA | Amps | LP Gas 130°C Rise Standby Rating kW/kVA | Amps |
|---|---|---|---|---|---|---|---|
| KH00932TO4D | 120/208 | 3 | 60 | 150/188 | 521 | 150/188 | 521 |
| | 120/240 | 3 | 60 | 150/188 | 452 | 150/188 | 452 |
| | 277/480 | 3 | 60 | 150/188 | 226 | 150/188 | 226 |
| | 347/600 | 3 | 60 | 150/188 | 181 | 150/188 | 181 |
| KH01382TO4D | 120/208 | 3 | 60 | 150/188 | 521 | 150/188 | 521 |
| | 120/240 | 3 | 60 | 150/188 | 452 | 150/188 | 452 |
| | 277/480 | 3 | 60 | 150/188 | 226 | 150/188 | 226 |
| | 347/600 | 3 | 60 | 145/181 | 175 | 150/188 | 181 |
| KH01183MO4D | 120/240 | 1 | 60 | 135/135 | 563 | 140/140 | 584 |

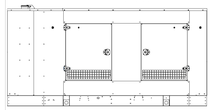
RATINGS: All three-phase units are rated at 0.8 power factor. All single-phase units are rated at 1.0 power factor. *Standby Ratings:* The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-8528-1 and ISO-3046-1. For limited running time and continuous ratings, consult the factory. Obtain technical information bulletin (TIB-101) for ratings guidelines, complete ratings definitions, and site condition derates. The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever. For dual fuel engines, use the natural gas ratings for both the primary and secondary fuels.


© 2026 Discovery Energy, LLC - All rights reserved.

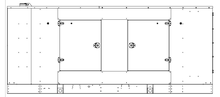


rehlko

# Industrial Generator Set Accessories
## Weather and Sound Enclosures



Standard Enclosure



Premium Sound Enclosure

### Available Approvals and Listings
- ❑ UL2200 Listing
- ❑ CSA Certified
- ❑ IBC Seismic Certification
- ❑ Hurricane Rated Enclosure - Available on aluminum sound premium enclosures (Impact rated for Large Missile Level E and Wind load rated per Florida Building Code tested to TAS201-94, TAS202-94 and TAS203-94 standards)

**Note:** Some models may have limited third-party approvals; see your local distributor for details.

### Applicable to the following: KG150-KG200

### Weather Enclosure Standard Features
- Internal-mounted critical silencer and flexible exhaust connector.
- Skid-mounted, steel construction with hinged doors.
- Fade-, scratch-, and corrosion-resistant Power Armor™ automotive-grade textured finish.
- Enclosure has four access doors which allow for easy maintenance.
- Lockable, flush-mounted door latches.
- Vertical air outlet discharge to redirect air and reduce noise.
- Steel weather enclosure is analyzed to 150 mph (241 kph) wind load rating.

### Sound Enclosure Standard Features
- Includes all of the weather enclosure features with the addition of acoustic insulation material.
- Skid-mounted, steel or aluminum construction with hinged doors. Aluminum enclosures are recommended for high humidity and/or high salt/coastal regions.
  Acoustic insulation that meets UL 94 HF1 flammability classification and repels moisture absorption.
- Sound attenuated enclosure that uses up to 51 mm (2 in.) of acoustic insulation, and acoustic-lined air discharge hood.
- Aluminum sound enclosure is certified to 186 mph (299 kph) wind load rating.
- Steel sound enclosure is analyzed to 150 mph (241 kph) wind load rating.

### Premium Sound Enclosure Standard Features
- Includes all of the standard sound enclosure features listed above.
- Premium sound enclosure has a louvered air intake on the rear, intake sound baffles, and no door intakes.
- Premium sound enclosures include 51 mm (2 in.) acoustic insulation material and acoustic-lined air discharge.

### Weather and Sound Enclosure Specifications

| Model | Max. Dimensions, mm (in.) Length | Width | Height | Max. Weight, kg (lb.) * Steel Weather Enclosure | Steel Sound Enclosure | Aluminum Sound Enclosure | Sound Pressure Level at 60 Hz with Full Load, Weather/Sound, dB(A) † |
|---|---|---|---|---|---|---|---|
| **Standard Weather and Sound Enclosure** | | | | | | | |
| KG150 | 3502 (137.9) | 1340 (52.8) | 1949 (76.7) | 2111 (4657) | 2132 (4703) | 1976 (4360) | 79/70 |
| KG180 | 3848 (151.5) | | | 2675 (5902) | 2698 (5952) | 2637 (5819) | 85/72 |
| KG200 | | | | | | | 85/73 |
| Premium Sound Enclosure | | | | | | | |
| KG150 | 4406 (173.5) | 1340 (52.8) | 1949 (76.7) | - | 2280 (5030) | 2108 (4650) | 69 |
| KG180 | | | | - | 2810 (6200) | 2638 (5820) | 70 |
| KG200 | | | | | | | 70 |

**Note:** Data in table is for reference only, refer to the respective ADV drawings for details.
* Max. weight includes the generator set (wet) with largest alternator option, enclosure, and silencer.
† Log average sound pressure level of 8 measured positions around the perimeter of the unit at a distance of 7 m (23 ft). Refer to TIB-114 for details.


© 2025 Discovery Energy, LLC - All rights reserved.



rehlko

# Model - KCS/KCP/KCC
## Automatic Transfer Switches Standard Any Breaker Rated

### Available Automatic Transfer Switch Controllers
Select one of the following controllers for your automatic transfer switch.

#### Decision-Maker® MPAC 1200 Controller

- LCD display, 4 lines x 20 characters, backlit
- Complete programming and viewing capability at the door using the keypad and LCD display
- LED indicators: Source available, transfer switch position, service required (fault), and "not in auto"
- Programmable voltage and frequency pickup and dropout settings
- Programmable time delays
- Programmable generator exerciser
- Time-based load control
- Two programmable inputs and two programmable outputs
- Up to four I/O extension modules available
- Modbus communication standard
- RS-485 communication standard
- Ethernet communication optional
- For more information about Decision-Maker® MPAC 1200 features and functions, see specification sheet G11-127.

#### Decision-Maker® MPAC 1500 Controller

- LCD display, 4 lines x 20 characters, backlit
- Complete programming and viewing capability at the door using the keypad and LCD display
- LED indicators: Source available, transfer switch position, service required (fault), and "not in auto"
- Programmable voltage and frequency pickup and dropout settings
- Programmable time delays
- Programmable generator exerciser
- Time-based load control
- Current-based load control (current-sensing kit required)
- Two programmable inputs and two programmable outputs
- Up to four I/O extension modules available
- Modbus communication standard
- RS-485 communication standard
- Ethernet communication standard
- Three-source system
- Prime power

For more information about Decision-Maker® MPAC 1500 features and functions, see specification sheet G11-128.

### Codes and Standards
The ATS meets or exceeds the requirements of the following specifications:
- CSA C22.2 No. 178 certification available, file #LR58301
- EN61000-4-4 Fast Transient Immunity Severity Level 4
- EN61000-4-5 Surge Immunity Class 4 (voltage sensing and programmable inputs only)
- IEC Specifications for EMI/EMC Immunity:
  - CISPR 11, Radiated Emissions
  - IEC 1000-4-2, Electrostatic Discharge
  - IEC 1000-4-3, Radiated Electromagnetic Fields
  - IEC 1000-4-4, Electrical Fast Transients (Bursts)
  - IEC 1000-4-5, Surge Voltage
  - IEC 1000-4-6, Conducted RF Disturbances
  - IEC 1000-4-8, Magnetic Fields
  - IEC 1000-4-11, Voltage Dips and Interruptions
- IEEE Standard 446, IEEE Recommended Practice for Emergency and Standby Power Systems for Commercial and Industrial Applications
- IEEE 472 (ANSI C37.90A) Ring Wave Test
- NEMA Standard ICS 10-2005, Electromechanical AC Transfer Switch Equipment
- NFPA 70, National Electrical Code
- NFPA 99, Essential Electrical Systems for Health Care Facilities
- NFPA 110, Emergency and Standby Power Systems
- Seismic certification in accordance with the International Building Code is available. (Accessory kit is required for seismic certification.)
  - IBC 2000, referencing ASCE 7-98 and ICC AC-156
  - IBC 2003, referencing ASCE 7-02 and ICC AC-156
  - IBC 2006, referencing ASCE 7-05 and ICC AC-156
  - IBC 2009, referencing ASCE 7-05 and ICC AC-156
  - IBC 2012, referencing ASCE 7-10 and ICC AC-156
- California OSHPD approval is available. (Accessory kit required.)
- Underwriters Laboratories UL 1008, Standard for Automatic Transfer Switches for Use in Emergency Standby Systems file #E58962 (automatic), #E86894 (nonautomatic)


© 2026 Discovery Energy, LLC - All rights reserved.



rehlko

# Industrial Generator Set - KG150
## 208-600 V Gas

### Application Data

#### Engine

| Engine Specifications | |
|---|---|
| Manufacturer | Rehlko |
| Engine: model, type | KG10V08T-6CGS (NG) KG10V08T-6DGS (Dual fuel/LP) 4- Cycle, Turbocharged, Charge Air Cooled |
| Cylinder arrangement | V-8 |
| Displacement, L (cu. in.) | 10.3 (628) |
| Bore and stroke, mm (in.) | 117 x 121 (4.59 x 4.74) |
| Compression ratio | 9.3:1 |
| Piston speed, m/min. (ft./min.) | 434 (1424) |
| Main bearings: quantity, type | 5, Tri-Metal |
| Rated rpm | 1800 |
| Max. power at rated rpm, kW (HP) | |
| NG | 174 (233) |
| LP | 178 (239) |
| Dual Fuel - NG | 227 (304) |
| Dual Fuel - LP | 178 (239) |
| Governor type | Electronic |
| Frequency regulation, no-load to full-load | Isochronous |
| Frequency regulation, steady state | ±0.75% |
| Frequency | Fixed |
| Air cleaner type, all models | Dry |

#### Lubrication

| Lubricating System | |
|---|---|
| Type | Full Pressure |
| Oil pan capacity, L (qt.) § | 11.3 (11.9) |
| Oil pan capacity with filter and oil cooler, L (qt.) § | 21.8 (22.9) |
| Oil filter: quantity, type § | 1, Spin-on |

§ Rehlko recommends the use of Rehlko Genuine oil and filters.

#### Fuel

| Fuel System | |
|---|---|
| Fuel type | Natural Gas, LP Gas, or Dual Fuel |
| Max. fuel flow, $m^3$/hr. (cfh) | |
| NG | 53.5 (1890) |
| LP | 23 (813) |
| Fuel supply line inlet | 2.0 in. NPTF |
| Natural gas fuel supply pressure, kPa (in. $H_2O$) | 1.74-2.74 (7-11) |
| LPG vapor withdrawal fuel supply pressure, kPa (in. $H_2O$) | 1.74-2.74 (7-11) |

| Fuel Composition Limits * | Nat. Gas | LP Gas |
|---|---|---|
| Methane, % by volume | 90 min. | — |
| Ethane, % by volume | 4.0 max. | — |
| Propane, % by volume | 1.0 max. | 85 min. |
| Propene, % by volume | 0.1 max. | 5.0 max. |
| $C_4$ and higher, % by volume | 0.3 max. | 2.5 max. |
| Sulfur, ppm mass | | 25 max. |
| Lower heating value, MJ/$m^3$ (Btu/ft$^3$), min. | 33.2 (890) | 84.2 (2260) |

* Fuels with other compositions may be acceptable. If your fuel is outside the listed specifications, contact your local authorized distributor for further analysis and advice.

| Fuel Consumption‡ | |
|---|---|
| **Natural Gas, $m^3$/hr. (cfh) at % load** | **Standby Ratings** |
| 100% | 53.5 (1889) |
| 75% | 42.4 (1497) |
| 50% | 31.2 (1102) |
| 25% | 20.1 (710) |
| **LP Gas, $m^3$/hr. (cfh) at % load** | **Standby Ratings** |
| 100% | 23.0 (812) |
| 75% | 18.4 (650) |
| 50% | 13.6 (480) |
| 25% | 9.2 (325) |

‡ Nominal fuel rating: Natural gas, 37 MJ/$m^3$ (1000 Btu/ft.$^3$) LP vapor, 93 MJ/$m^3$ (2500 Btu/ft.$^3$)

LP vapor conversion factors:
8.58 ft.$^3$ = 1 lb.
0.535 $m^3$ = 1 kg.
36.39 ft.$^3$ = 1 gal.

#### Cooling

| Radiator System | |
|---|---|
| Ambient temperature, °C (°F)' | 50 (122) |
| Engine jacket water capacity, L (gal.) | 11 (3.0) |
| Radiator system capacity, including engine, L (gal.) | 32.4 (8.6) |
| Engine jacket water flow, Lpm (gpm) | 200 (52.9) |
| Charge air cooler inlet temperature at 25°C (77°F) ambient, °C (°F) | 120 (247) |
| Heat rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.) | 114 (6511) |
| Heat rejected to charge cooling air at rated kW, dry exhaust, kW (Btu/min.) | 17 (990) |
| Turbocharger boost (abs), kPa (psi) | 202 (30) |
| Water pump type | Centrifugal |
| Fan diameter, including blades, mm (in.) | 813 (32.1) |
| Fan, kWm (HP) | 12 (17) |
| Max. restriction of cooling air, intake and discharge side of radiator, kPa (in. $H_2O$) | See TIB-118 |

* Enclosure with internal silencer reduces ambient temperature capability by 5°C (9°F).

#### Exhaust

| Exhaust System | |
|---|---|
| Exhaust manifold type | Dry |
| Exhaust flow at rated kW, $m^3$/min. (cfm) | 29 (1035) |
| Exhaust temperature at rated kW, dry exhaust, °C (°F) | 697 (1286) |
| Maximum allowable overall back pressure, kPa (in. Hg) | See TIB-119 |
| Exhaust outlet size at engine hookup, mm (in.) | See ADV drawing |

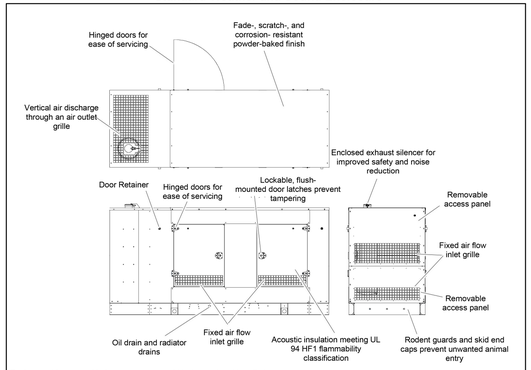

© 2026 Discovery Energy, LLC - All rights reserved.



rehlko

# Industrial Generator Set Accessories
## Weather and Sound Enclosures

### Standard Weather and Sound Enclosure




Enclosure ships assembled on generator set skid when ordered installed.

**Note:** Standard enclosure shown.

ADV-9110A-1

### Weather Enclosure Features
- Available in steel (14 gauge) formed panel, solid construction. Preassembled package offering corrosion resistant, dent resilient structure mounting directly to skid.
- Power Armor™ automotive-grade finish resulting in advanced corrosion and abrasion protection as well as enhanced edge coverage and color retention.
- Internal critical exhaust silencer offering maximum component life and operator safety.
  NOTE: Installing an additional length of exhaust tail pipe may increase backpressure levels. Please refer to the generator set spec sheet for the maximum backpressure value.
- Interchangeable modular panel construction.
  Allows complete serviceability or replacement without compromising enclosure design.
- Cooling/combustion air intake with a horizontal air inlet. Sized for maximum cooling airflow.
- Service access. Multi-personnel doors for easy access to generator set control and servicing of the oil fill and battery.
- Cooling air discharge. Weather protective design featuring a vertical air discharge outlet grille. Redirects cooling air up and above enclosures to reduce noise ambient.

### Additional Sound Enclosure Features
- Available in steel (14 gauge) or aluminum 3.2 mm (0.125 in.) formed panel, solid construction.
- Sound-attenuating design. Mechanically restrained acoustic insulation UL 94 HF1 listed for flame resistance.
- Cooling air discharge. The sound enclosures include acoustic insulation with urethane film.


© 2025 Discovery Energy, LLC - All rights reserved.



SLI GROUP, INC.
ARCHITECTURE | DESIGN | CONSTRUCTION
15810 PARK TEN PLACE, SUITE 300
HOUSTON, TEXAS 77084
713-465-4650
www.sligroup.com
© COPYRIGHT

National Bank & Trust - Bastrop
Enter address here

E/BE Project Number : 26129.00

| ISSUED FOR | DATE |
|---|---|
| ISSUED FOR CLIENT APPROVAL | |
| ISSUED FOR BIDDING | 09/11/26 |
| ISSUED FOR PERMIT | 09/11/26 |
| ISSUED FOR CONSTRUCTION | |

**REVISIONS**

| MARK | DESCRIPTION | DATE |
|---|---|---|
| | 70% REVIEW SET | 07/29/26 |
| | 90% REVIEW SET | 08/20/26 |
| | ISSUE FOR PERMIT & BID | 09/11/26 |

The information, ideas, designs, details, layouts, techniques, features, arrangements, plans, sequences, dimensions, allowances, tolerances, conceptions, specifications, intentions, technology or embodiments, as illustrated, arranged, displayed, noted, recorded, indicated, represented, disclosed, evidenced, detailed or otherwise reduced to tangible form hereon, either expressly, inherently or by implication, are the confidential and proprietary information of SLI Design, Inc., and shall not be used for any purpose other than the specific project or undertaking identified on the drawing title block or legend for which they are and have been prepared by SLI Design, Inc. Any other reproduction, disclosure or use of any portion of the confidential and proprietary information of SLI Design, Inc., shall be a breach of the obligation of confidence created by the acceptance of this drawing from SLI Design, Inc. for a specific project or Contract. Any copying, duplicating, reproducing, utilization, alteration, modification, revision or change to this drawing, is expressly prohibited unless done with the prior written consent or approval of SLI Design, Inc., and shall not be undertaken without receipt of such prior written approval. This drawing is loaned by SLI Design, Inc., for the limited purpose of complying with a specific Contract. The drawing remains the property of SLI Design, Inc., and shall be returned upon request or completion of the contract, unless specifically authorized by Contract, under which it was loaned.

JOSE M. GUERRERO
154536
REGISTERED PROFESSIONAL ENGINEER

DRAWING TITLE
GENERATOR SPECIFICATIONS

SHEET NO.
E6.10

E|B|E Mechanical Electrical Plumbing
CONSULTING ENGINEERS
12603 Southwest Fwy, Ste 170, Stafford, Tx 77477
Tel: (713) 840-0177 / Firm Reg. No: 5638