

MODEL

## HNSG-63



60Hz STANDBY UL2200 & CSA

63kW/60Hz/STANDBY/1800RPM



| VOLTAGE VAC                | 120/240V |       | 120/208V |      | 139/240V |       | 277/480V |      | 347/600V** |      |
|----------------------------|----------|-------|----------|------|----------|-------|----------|------|------------|------|
| RATINGS                    | NG       | LPG   | NG       | LPG  | NG       | LPG   | NG       | LPG  | NG         | LPG  |
| PHASE                      | 1        |       | 3        |      | 3        |       | 3        |      | 3          |      |
| PF                         | 1.0      |       | 0.8      |      | 0.8      |       | 0.8      |      | 0.8        |      |
| HZ                         | 60       |       | 60       |      | 60       |       | 60       |      | 60         |      |
| KW                         | 63       | 63    | 63       | 63   | 63       | 63    | 63       | 63   | 63         | 63   |
| KVA                        | 63       | 63    | 78.8     | 78.8 | 78.8     | 78.8  | 78.8     | 78.8 | 78.8       | 78.8 |
| AMPS                       | 262.5    | 262.5 | 219      | 219  | 189.5    | 189.5 | 94.7     | 94.7 | 76         | 76   |
| SKVA@30%<br>VOLTAGE<br>DIP | 170      |       | 169      |      | 169      |       | 232      |      | 248        |      |

\*\* 600 Volt configuration not available as UL2200 certified generator set.

### Description

HIPOWER® SafeGuard Generators are an efficient, reliable and versatile source of electrical power. Designed to operate in the most extreme working conditions. All HIPOWER® SafeGuard Generators combine an innovative design with high quality materials that provide the most dependable non-stop power with easy to operate controls.

Powered by a radiator-cooled industrial FORD NG engine that meets current Environmental Protection Agency (EPA) exhaust emission regulations, driving a single bearing, four-pole alternator, with IP23 protection. The Prime Power kVA rating for generator set is given with a 120 °C alternator winding temperature rise.

### HIPOWER® Features and Benefits

**FORD Engine:** Long-life, heavy-duty, 4-cycle, EPA certified, spark-ignited for economy of operation and maximum reliability and durability. Capable of full rated load acceptance in one step.

**Cooling:** Radiator with belt driven pusher fan.

**Air Filter:** Heavy-duty replaceable element air-cleaner.

**Alternator:** Single bearing, rotating field, self-excited, self-ventilated, 12-wire re-connectable, and 4-wire dedicated for single phase version, 60Hz brushless alternator, Class H insulation. Automatic Voltage Regulator (AVR) providing close voltage regulation and skVA starting capability for electric motor loads.

**Certification:** Generator set is UL2200 and CSA certified, and meets ISO 8528-5.

### HIPOWER® Features and Benefits

**Enclosure:** Fabricated in 11-gauge steel, powder coated with finish that exceeds 1400-hr salt spray test, minimum outside fasteners and four points lift. Vertical air discharge for quiet operation. Wide steel lockable access doors with seals, easy access for maintenance and service activities, lift off stainless steel hinges, corrosion resistant hardware and fasteners.

**Exhaust:** Low noise, steel residential-type exhaust silencer.

**Filtration:** Heavy duty replaceable element air-cleaner

**Controls:** Digital control panel with manual and automatic start and stop features. Many programmable automatic functions for local and remote controls with LED lights, tamper proof engine hour recorder.

HIMOINSA POWER SYSTEMS, INC.

16600 S. Theden Street, Olathe, KS 66062

Tel: 913 495 5557 | Fax: 913 495 5575 [www.hipowersystems.com](http://www.hipowersystems.com)

Codes and Standards Compliances used where applicable



## APPLICATION DATA

| ENGINE SPECIFICATION  |                                   |
|---|-----------------------------------|
| Manufacturer  | FORD                              |
| Model   | RSG862                            |
| EPA Certified   | Yes                               |
| Crankshaft speed  | 1,800 rpm                         |
| Type  | NG/LPG fueled, 4-stroke           |
| Ignition  | Spark Plug                        |
| Aspiration  | Natural                           |
| Number of Cylinders   | 8                                 |
| Cylinder Arrangement  | V-Type                            |
| Displacement CID (liters)   | 379 (6.2)                         |
| Bore and Stroke ins (mm)  | 4.02 x 3.74 (102 x 95)            |
| Nominal Power   | 96 hp                             |
| Cooling   | Liquid                            |
| Governor  | Electronic                        |
| Governor Regulation Class   | ISO 8528 Part 1 Class G3          |
| Frequency Regulation  | Isochronous                       |
| Starting Motor & Alternator   | 12 volt                           |
| Compression Ratio   | 9.8:1                             |
| Air Cleaner Type  | Dry - light duty, single stage    |
| Exhaust gas flow cu. ft./minute (cu.m. /minute)                                     | 510.17 (14.4)                     |
| Max. Exhaust temp at full load degrees °F (°C)                                      | 1371(744)                         |
| Max. Permissible back pressure - ins H2O (kPA )                                     | 81 (20.3)                         |
| COOLING SYSTEM  |                                   |
| Engine cooling air flow - cu. ft./min (cu. m/min)                                   | 6356.6 (180)                      |
| Alternator cooling flow - cu. ft./min (cu. m/min)                                   | 449 (12.7)                        |
| Total cooling air flow (engine + alternator + combustion) - cu. ft./min (cu. m/min) | 6973 (197.5)                      |
| Total cooling capacity - US gallons (liters)  | 6.3 (23.8)                        |
| Max. Operating Temperature °F (°C)  | 118 (48)                          |
| LUBRICATION SYSTEM  |                                   |
| Oil Pan Capacity with filter - US gallons (liters)                                  | 1.5 (5.6)                         |
| Oil Cooler  | Water - cooled                    |
| Recommended Lubricating Oil Grade   | SAE 5W20 - refer to owners manual |
| Oil consumption at full load  | 1 quart every 400 hours           |
| Oil pressure – psi (kPA)  | 30-50 (207-344)                   |
| ENGINE ELECTRICAL SYSTEM  |                                   |
| Starting motor voltage  | 12 volt                           |
| Cold Cranking Amps - minimum  | 66 Amp                            |
| Battery Charging Alternator   |                                   |
| Battery Capacity  | 740 Amps                          |

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## APPLICATION DATA

### FUEL SYSTEM

|  |                                     |
|--|-------------------------------------|
| Fuel type  | LPG or Natural Gas, vapor withdrawl |
| Fuel supply line - inlet (NG)                            | 1" FNPT                             |
| Fuel supply line - inlet (LPG)                           | 1/2" FNPT                           |
| Natural gas and LPG fuel supply pressure - in. H2O (kPa) | 7 to 11 ins. (1.74 - 2.74)          |

### FUEL COMSUMPTION

|   | Standby Power Rating |
|---|----------------------|
| LPG - Gal/hour at 100% standby rating   | 8.23                 |
| NG - cu. ft./hour (cu. m/hour) at 100% standby rating                           | 745.5                |
| LPG - Gal/hour at 75% standby rating  | 6.56                 |
| NG - cu. ft./hour (cu. m/hour) at 75% standby rating                            | 605                  |
| LPG - Gal/hour at 50% standby rating  | 4.84                 |
| NG - cu. ft./hour (cu. m/hour) at 50% standby rating                            | 458.5                |
| LPG = 2500 BTU X FT3/HR = Total BTU/HR<br>NG = 1000 BTU X FT3/HR = Total BTU/HR | 1 Gal. LPG = 36.4 cf |

### ALTERNATOR SPECIFICATION

|  |   |
|--|---|
| Manufacturer   | STAMFORD  |
| Model  | UCI224F - UCI224F - UCI224G - UCI224F (600V)                      |
| Alternator Model   | 120/208V - 277/480 - 120/240V - 347/600V                          |
| Alternator Type  | Four pole, rotating field   |
| Excitation System  | Brushless   |
| Power Factor   | 0.8 / 1.0   |
| Number of Leads  | 12 leads, reconnectable (Three phase version)                     |
| Stator Pitch   | 2/3   |
| Insulation   | Class H   |
| Windings – Temperature Rise                              | 120/40° C   |
| Enclosure (IEC-34-S)                                     | IP23  |
| Bearing  | Single, sealed  |
| Coupling   | Flexible disc   |
| Amortisseur windings                                     | Full  |
| Voltage regulation – no load to full load with AS480 AVR | ± 1%  |
| TIF  | <50   |
| Radio Frequency Emissions compliance                     | Meets requirements of most industrial and commercial applications |
| Line Harmonics   | 5% maximum  |

### STANDARD ACCESSORIES

|  |   |
|--|---|
| • Radiator with pusher fan                       | • Main line ABB UL listed circuit breaker for overload protection |
| • Control Panel PowerEdge (See over for details) | • Heated Control Panel  |

### OPTIONAL ACCESSORIES

|                                |                            |
|--------------------------------|----------------------------|
| • Battery with Cables          | • Anti-Condensation Heater |
| • Battery Blanket              | • Water Jacket heater      |
| • 6 Amp Battery charger, 12VDC | • 10A Battery charger      |
| • Generator Raiser             | • Remote annunciator       |

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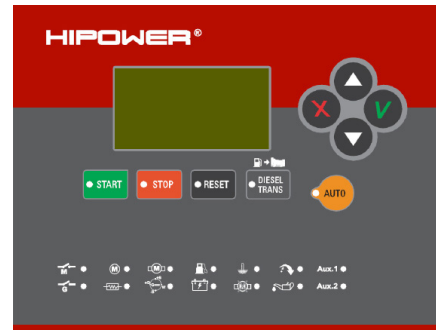
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# CONTROL SYSTEMS STANDARD FEATURES - Generator Digital Control Panel

**HIPOWER® Control Panel:** HIPOWER digital controller with auto and manual start capability. Digital readout for: volts between each phase & neutral, volts between phases, amps per phase, frequency, kW and kVA power, power factor, KW hour with accumulation by day, month and year, fuel reserve, oil pressure, coolant temperature, battery volts and charging alternator volts, engine speed, hours running. Engine alarms for high coolant temperature, low oil pressure, emergency stop activated, battery charging failure, low coolant level, low fuel level, over-speed, under-speed and low battery volts.

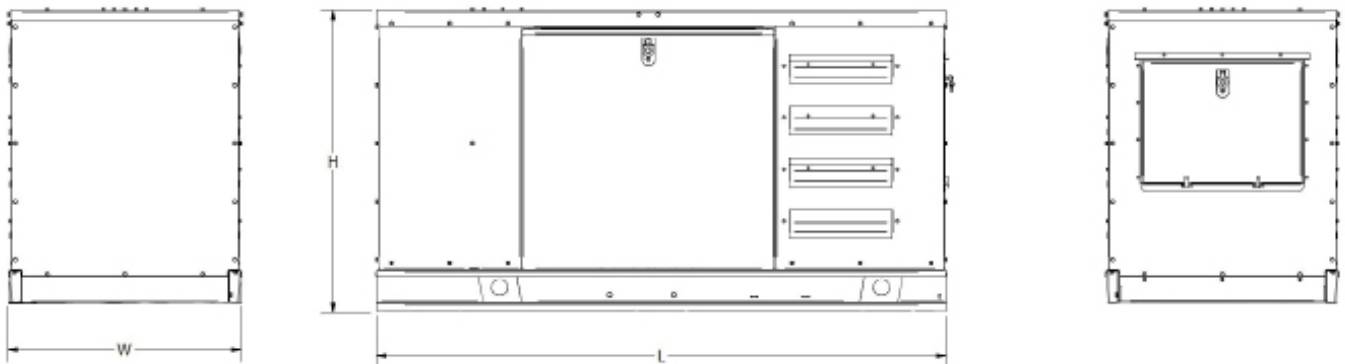
**Engine Alarms Included:** High coolant temperature, low oil pressure, low coolant level, unexpected shutdown, low fuel level, stop failure, low battery voltage, battery charging alternator failure, over-speed, under-speed, start failure and emergency stop. Support of engines with ECU (J1939, Modbus and other proprietary interfaces); alarm codes displayed in text form.



**Alternator Alarms Included:** Overload, unbalanced voltage, over voltage, under voltage, over frequency, under frequency, short circuit and reverse power.

## DIMENSIONS, WEIGHTS & SOUND LEVELS

### ENCLOSED SET



| CONFIGURATION | L = Length | W = Width | H = Height | Weight lbs | dBA |
|---------------|------------|-----------|------------|------------|-----|
| Enclosed Set  | 120"       | 45"       | 57"        | 2700       | 73* |

\*Noise level @ 100% load



**Intertek**

Conforms to UL STD 2200  
 Certified to CSA STD C22.2#100  
 Certified to CSA STD C22.2#14

REV3

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