

SafeGuard NG/LPG Rental Spark Ignited

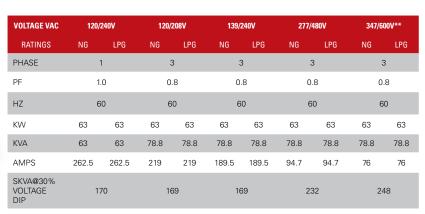
MODEL





63kW/60Hz/PRP/1800RPM

60HZ PRIME POWER RATED



** 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.

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Codes and Standards Compliances used where applicable





APPLICATION DATA

ENGINE SPECIFICATION	
Manufacturer	FORD
Model	RSG862
EPA Certified	Yes
Crankshaft speed	1,800 rpm
Туре	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 Alternantor	
Battery Capacity	740 Amps

Codes and Standards Compliances used where applicable

AVA.



APPLICATION DATA

Fuel type LPG or Natural Gas, vapor withdrawl Fuel type/une - inlet (USQ) 1" FNPT Fuel supply line - inlet (USQ) 1/2 FNPT Natural gas and LPG fuel supply pressure - in. H2O (kPa) 7 to 11 ins. (17.4 - 2.74) FUEL COMPSUMPTION Standay Rower Rating FUEL COMPSUMPTION Standay Rower Rating NB - or. If, flow (cu. m/hour) at 100% standay rating 6.53 NG - or. If, flow (cu. m/hour) at 50% standay rating 6.66 Standay Fast Standay rating 6.65 NG - or. If, flow (cu. m/hour) at 50% standay rating 4.84 NG - or. If, flow (cu. m/hour) at 50% standay rating 1.63 LPG - 86.4 cf NG - or. If, flow (cu. m/hour) at 50% standay rating 1.63 LPG - 86.4 cf NG - 1000 BTUX FT3/H8 = Total BTU/HR 1.64 LPG - 86.4 cf NG - 1000 BTUX FT3/H8 = Total BTU/HR 1.63 LPG - 86.4 cf Maratar and Model UC1224F - UC1224F - UC1224F (000V) Atternator Standay rating field Bactorary Type Four pele, rotating field Number of Leads 12 leads, reconnectable (Three phase version) Standay Cols H Nandiras Four pele, rotating field <th>FUEL SYSTEM</th> <th></th>	FUEL SYSTEM	
Fuel supply line - inlet (LPG) 1/2" FNPT Natural gas and LPG fuel supply pressure - in. H2O (KPa) 7 to 11 ins. (174 - 2.74) FUEL COMPSUMPTION Standby Power Rating LPG - Gal/hour at 100% standby rating 8.23 LPG - Gal/hour at 70% standby rating 6.56 LPG - Gal/hour at 75% standby rating 6.56 LPG - Gal/hour at 75% standby rating 6.56 LPG - Gal/hour at 55% standby rating 6.56 LPG - Gal/hour at 55% standby rating 6.56 LPG - Gal/hour at 50% standby rating 6.56 LPG - Gal/hour at 50% standby rating 4.84 NG - ou. ft,/hour (ou. m/hour) at 50% standby rating 4.58.5 LPG - Gal/hour at 50% standby rating 1.63L LPG = 36.4 cf NG = 1000 BTU X FT3/H R = Total BTU/HR 1.63L LPG = 36.4 cf Atternator Kodel UCi224F - UCi224G - UCi224F (600V) Atternator Xodel UCi224F - UCi224G - UCi224F (600V) Atternator Type Four pole, rotating field Excitation System Brushless Stor Phch 2/3 Insulation Cleas H Windings - Temperature Rise Single, sealed	Fuel type	LPG or Natural Gas, vapor withdrawl
Number of the strength of the supply pressure - in. H2O (kPa) 7 to 11 ins. (1.74 - 2.74) FUEL COMPSUMPTION Standby Rower Rating FUEL COMPSUMPTION Standby Rower Rating LPG - Gal/hour at 100% standby rating 8.23 NG - ou. Th/hour (cu. m/houd) at 00% standby rating 6.56 NG - ou. Th/hour (cu. m/houd) at 50% standby rating 6.55 Or - ou. Th/hour (cu. m/houd) at 50% standby rating 6.55 NG - ou. Th/hour (cu. m/houd) at 50% standby rating 6.55 NG - ou. Th/hour (cu. m/houd) at 50% standby rating 4.84 NG - ou. Th/hour (cu. m/houd) at 50% standby rating 4.84 NG - ou. Th/hour (cu. m/houd) at 50% standby rating 1 Gal. LPG = 36.4 cf NG - ou. Th/Lour (cu. m/houd) at 50% standby rating 1 Gal. LPG = 36.4 cf NG - ou. Th/Lour (cu. m/houd) at 50% standby rating 1 Gal. LPG = 36.4 cf NG - ou. Th/Lour (cu. m/houd) at 50% standby rating 1 Gal. LPG = 36.4 cf NG - ou. Th/Lour (cu. m/houd) at 50% standby rating 1 Gal. LPG = 36.4 cf NG - ou. Th/Lour (cu. m/houd) at 50% standby rating 1 Gal. LPG = 36.4 cf Atternation VIII 2004 - 201224F - UCI224G - UCI224F (600V) Atternator Stand PGD 200 PDC pole, crot	Fuel supply line - inlet (NG)	1" FNPT
FUEL COMPSUMPTION 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 6.05 NG - Gal/hour at 50% standby rating 4.84 NG - Gal/hour at 50% standby rating 4.84 NG - Gal/hour at 50% standby rating 4.85.5 LPG = 2500 BTUX FT3/HR = Total BTU/HR 1 Gal, LPG = 36.4 cf NG = 000 BTU X FT3/HR = Total BTU/HR 1 Gal, LPG = 36.4 cf NG = 1000 BTU X FT3/HR = Total BTU/HR 1 Gal, LPG = 36.4 cf NG = 1000 BTU X FT3/HR = Total BTU/HR 1 Gal, LPG = 36.4 cf NG = 1000 BTU X FT3/HR = Total BTU/HR 1 Gal, LPG = 36.4 cf NG = 1000 BTU X FT3/HR = Total BTU/HR 1 Gal, LPG = 36.4 cf NG = 100 BTU X FT3/HR = Total BTU/HR 1 Gal, LPG = 36.4 cf Nodel UC1224F - UC1224F - UC1224F (600V) Atternator System Braudate Standby rating Nodel UC1224F - UC1224F - UC1224F (600V) Atternator Type Four pole, rotating field Excitation System Braushess	Fuel supply line - inlet (LPG)	1/2" FNPT
LPG - Gal/hour at 100% standby rating 8-23 NG - cu. fL/hour (cu. m/hour) at 100% standby rating 745.5 LPG - Gal/hour at 75% standby rating 6.56 NG - cu. fL/hour (cu. m/hour) at 75% standby rating 606 LPG - Gal/hour at 50% standby rating 4.84 NG - cu. fL/hour (cu. m/hour) at 50% standby rating 458.5 LPG - Sal /L/hour (cu. m/hour) at 50% standby rating 458.5 LPG - Sal /L/hour (cu. m/hour) at 50% standby rating 1 Gal. LPG = 36.4 cf NG - cu. fL/hour (cu. m/hour) at 50% standby rating 1 Gal. LPG = 36.4 cf NG = 1000 BTU X FT3/HR = Total BTU/HR 1 Gal. LPG = 36.4 cf Manufacturer STAMFORD Model UC1224F - UC1224F - UC1224F - UC1224F (600V) Atternator Model 120/260V - 327/480 - 120/240V - 347/60V Atternator Model 120/260V - 327/480 - 120/240V - 347/60V Atternator Type Four pole, rotating field Excitation System Brushiess Power Factor 0.8 / 1.0 Number of Leads 12 leads, reconnectable (Three phase version) Stator Pitch 2/3 Insulation Class H Undings - Temperatur	Natural gas and LPG fuel supply pressure - in. H2O (kPa)	7 to 11 ins. (1.74 - 2.74)
Rest of admote driver work of the driver admote d	FUEL COMPSUMPTION	Standby Power Rating
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 - ou, ft/hour (cu, m/hour) at 50% standby rating 458.5 LPG - S200 BTU X FT3/HR = Total BTU/HR 1 Gal. LPG = 38.4 cf NG - 1000 BTU X FT3/HR = Total BTU/HR 1 Gal. LPG = 36.4 cf NG - 1000 BTU X FT3/HR = Total BTU/HR STAMFORD Manufacturer STAMFORD Manufacturer STAMFORD Madel UCI224F - UCI224G - UCI224F (E00V) Atternator Model 120/208V - 277/480 - 120/240V - 347/600V Atternator 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 Full Anortisseur windings Full Radio Frequency Emissions compliance Meets requirements of most industrial and commercial applica	LPG - Gal/hour at 100% standby rating	8.23
Bearing 605 Coult Thour (cu. m/hour) at 75% standby rating 4.84 LPG - Gal/hour at 50% standby rating 458.5 LPG - S200 BTU X FT3/HR = Total BTU/HR 1 Gal. LPG = 36.4 cf ATTERNATOR SPECIFICATION TOLI224F - UCI224G - UCI224F (600V) Manufacturer STAMFORD Model UCI224F - UCI224G - UCI224F (600V) Atternator Model 120/208V - 277/480 - 120/240V - 347/600V Atternator 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 Full Artor Hour (sour mindings Full Vitage regulation - no load to full load with A5480 AVR ± 1% TIF <50	NG - cu. ft./hour (cu. m/hour) at 100% standby rating	745.5
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 NG = 1000 BTU X FT3/HR = Total BTU/HR 1 Gal. LPG = 38.4 cf ALTERNATOR SPECIFICATION STAMFORD Model UCI224F - UCI224G - UCI224F (600V) Alternator Model 1 C0/208V - 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 Undings - Temperature Rise 120/40° C Enclosure (IEC-34-S) IP23 Bearing Single, sealed Coupling Full Amortisseur windings Full TIF <50	LPG - Gal/hour at 75% standby rating	6.56
458.5 VG - cu. tr/hour (uc. m/hour) at 50% standby rating 458.5 LPG = 2500 BTU X FT3/HR = Total BTU/HR 1 Gal. LPG = 36.4 cf ALTERNATOR SPECIFICATION STAMFORD Model UCI224F - UCI224F - UCI224F (600V) Alternator Model 120/206V - 277/480 - 120/240V - 347/600V Alternator Model 120/206V - 277/480 - 120/240V - 347/600V Alternator Model 120/206V - 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 Full Anortisseur windings Full Voltage regulation – no load to full load with AS480 AVR ± 1% TIF <50	NG - cu. ft./hour (cu. m/hour) at 75% standby rating	605
I Gal. LPG = 2500 BTU X FT3/HR = Total BTU/HR I Gal. LPG = 36.4 cf I Gal. LPG = 36.4 cf I Gal. LPG = 36.4 cf ALTERNATOR SPECIFICATION Manufacturer STAMFORD Model UC1224F - UC1224F - UC1224F (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 120/208V - 277/480 - 120/240V - 347/600V Stator Pitch 0.8 / 1.0 Number of Leads 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 Full Voltage regulation - no load to full load with AS480 AVR 1 % TIF <50	LPG - Gal/hour at 50% standby rating	4.84
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ManufacturerSTAMFORDModelUCI224F - UCI224G - UCI224F (600V)Alternator Model120/208V - 277/480 - 120/240V - 347/600VAlternator TypeFour pole, rotating fieldExcitation SystemBrushlessPower Factor0.8 / 1.0Number of Leads12 leads, reconnectable (Three phase version)Stator Pitch2/3InsulationClass HWindings – Temperature Rise120/40° CEnclosure (IEC-34-S)IP23BearingSingle, sealedCouplingFlexible discAmottisseur windingsFullVittage regulation – no load to full load with AS480 AVR± 1%TIF<50	LPG = 2500 BTU X FT3/HR = Total BTU/HR NG = 1000 BTU X FT3/HR = Total BTU/HR	1 Gal. LPG = 36.4 cf
Model UCI224F - UCI224F - UCI224F (600V) Alternator Model UCI224F - UCI224F - UCI224F (600V) Alternator Model 120/208V - 277/480 - 120/240V - 347/600V Alternator Type Four pole, rotating field Excitation System Brushless Brushless Brushless Power Factor 0.8 / 1.0 UCI224F - UCI224F - UCI224F (000V) UCI224F - UCI224F (000V) Alternator Type Stator System Used System Us	ALTERNATOR SPECIFICATION	
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 Full Voltage regulation – no load to full load with AS480 AVR ± 1% TIF <50	Manufacturer	STAMFORD
Alternator Type Four pole, rotating field Alternator Type 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 Full Voltage regulation – no load to full load with AS480 AVR ± 1% TIF <50	Model	UCI224F - UCI224F - UCI224G - UCI224F (600V)
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 Full Voltage regulation – no load to full load with AS480 AVR ± 1% TIF <50	Alternator Model	120/208V - 277/480 - 120/240V - 347/600V
Power Factor0.8 / 1.0Number of Leads12 leads, reconnectable (Three phase version)Stator Pitch2/3InsulationClass HWindings - Temperature Rise120/40° CEnclosure (IEC-34-S)IP23BearingSingle, sealedCouplingFlexible discAmortisseur windingsFullVotage regulation - no load to full load with AS480 AVR± 1%TIF<50	Alternator Type	Four pole, rotating field
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	Excitation System	Brushless
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	Power Factor	0.8 / 1.0
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	Number of Leads	12 leads, reconnectable (Three phase version)
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	Stator Pitch	2/3
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	Insulation	Class H
Bearing Single, sealed Coupling Flexible disc Amortisseur windings Full Voltage regulation – no load to full load with AS480 AVR ± 1% TIF <50	Windings – Temperature Rise	120/40° C
Coupling Flexible disc Amortisseur windings Full Voltage regulation – no load to full load with AS480 AVR ± 1% TIF <50	Enclosure (IEC-34-S)	IP23
Amortisseur windings Full Voltage regulation – no load to full load with AS480 AVR ± 1% TIF <50	Bearing	Single, sealed
Voltage regulation – no load to full load with AS480 AVR ± 1% TIF <50	Coupling	Flexible disc
TIF <50	Amortisseur windings	Full
Radio Frequency Emissions compliance Meets requirements of most industrial and commercial applications Line Harmonics 5% maximum STANDARD ACCESSORIES • Main line ABB UL listed circuit breaker for overload protection	Voltage regulation - no load to full load with AS480 AVR	± 1%
Line Harmonics 5% maximum STANDARD ACCESSORIES • Main line ABB UL listed circuit breaker for overload protection	TIF	<50
STANDARD ACCESSORIES • Radiator with pusher fan • Main line ABB UL listed circuit breaker for overload protection	Radio Frequency Emissions compliance	Meets requirements of most industrial and commercial applications
Radiator with pusher fan Main line ABB UL listed circuit breaker for overload protection	Line Harmonics	5% maximum
	STANDARD ACCESSORIES	
Control Panel PowerEdge (See over for details) Heated Control Panel	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

Codes and Standards Compliances used where applicable



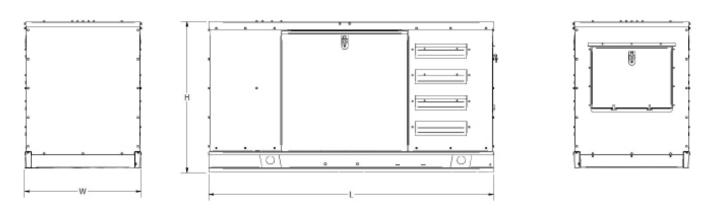
CONTROL SYSTEMS STANDARD FEATURES - Generator Digital Control Panel

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.

DIMENSIONS, WEIGHTS & SOUND LEVELS

ENCLOSED SET



CONFIGURATION	Generator Data *					
CONFIGURATION	L = Length	ength W = Width H = He	H = Height	Weight Ibs	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

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Alternator Alarms Included: Overload, unbalanced voltage, over voltage, under voltage, over

• RESET

HIPOWER*

voltage, over voltage, under voltage, over frequency, under frequency, short circuit and reverse power.

REV3

Codes and Standards Compliances used where applicable



