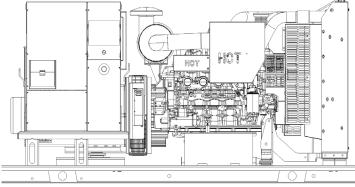
# **Heavy Duty Industrial DIESEL GENERATOR**

# HDI-100F

#### 60Hz STANDBY POWER RATINGS

HIPOWER

YANMAR COMPANY



VOLTAGE VAC	120/240V	120/208V	139/240V	277/480V	347/600V
RATING	Standby	Standby	Standby	Standby	Standby
PHASE	1	3	3	3	3
PF	1.0	0.8	0.8	0.8	0.8
HZ	60	60	60	60	60
KW	100	100	100	100	100
KVA	100	125	125	125	125
AMPS	417	347	301	150	120

### Description

HIPOWER<sup>®</sup> Heavy Duty Industrial generators are an efficient, reliable and versatile source of back-up electrical power that have been designed to operate in the most extreme working conditions. All HIPOWER<sup>®</sup> Heavy Duty Industrial generators combine an innovative design and the use of high quality materials that provide the user with the most dependable power that can be relied on for non-stop power with easy to operate controls.

Powered by a radiator-cooled, industrial FPT Diesel engine that meets current Environmental Protection Agency (EPA) TIER 3 exhaust emission regulations, driving a single bearing, four-pole, three-phase alternator, with IP23 protection. The Emergency Power kVA rating is given with a 125 degree °C alternator winding temperature rise.

## **HIPOWER®** Features and Benefits

**FTP** Diesel Engine: Long-life, heavy-duty, 4-cycle, direct injection engine for economy of operation and maximum reliability and durability.

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 reconnectable, 60Hz brushless alternator and Class H insulation. Automatic voltage regulator (AVR) providing close voltage regulation and skVA starting capability for electric motor loads. **Enclosure:** Fully sound attenuated enclosure, manufactured using 7-gauge steel and thicker for the base; 12-gauge and 14-gauge for the enclosure, Interpon

A4700 primer, in combination with Interpon 600 series coatings, are designed for exterior exposure and offers excellent light and weather resistance exceeding 1400hr salt spray test. A 1" thick layer of durable sound insulating, oil and fire resistant foam material is installed all around the inside of the enclosure to allow high-pressure water cleaning. Vertical air discharge for quiet operation. Wide steel lockable access doors with rubber seals, easy access for maintenance and service activities, lift off Die Cast Zinc hinges textured black powder coat and corrosion resistant hardware and fasteners.

Exhaust: Low noise, steel residential-type exhaust silencer with rain cap.

**Fuel Filtration:** Standard and secondary water separator with visible level on fuel filters.

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

**Certification:** Generator set is UL 2200 Listed and CSA certified and meets ISO 8528-5. IBC seismic certified to the maximum force level requirements according to ICC-ES AC-156.



#### **HIMOINSA POWER SYSTEMS, INC.**





100kW/60Hz//1800RPM



# APPLICATION DATA

MandamFit-meanPit-mean	ENGINE SPECIFICATION		LUBRICATION SYSTEM	
EPA certilind         Tar's         Ol cooler         Loud           Cankahaft speed         1.400 rpn         Recommended lubricating all grade         Sk-100/30/ACEA Sk25s forder to orwers menually reperiod         Sk2-100/30/ACEA Sk25s forder to orwers menually provider samadia         Sk2-100/30/ACEA Sk25s forder to orwers menually provider samadia         Sk2-100/30/ACEA Sk25s forder to orwers menually provider samadia         Sk2-100/40	Manufacturer	FPT - Iveco	Oil pan capacity - gal (L)	3.2 (12)
Canada tar. Speed         1880 rpm         Recommended lubricating oil grade         Self 100 X00 / ACE AGUS in Analuation in Actuality in Consumption at full load         < 0.11 Sent to some in Actuality in Consumption at full load         < 0.11 Sent to some in Actuality in Consumption at full load         < 0.11 Sent to some in Actuality in Consumption at full load         < 0.11 Sent to some in Actuality in Consumption at full load         < 0.11 Sent to some in Actuality in Consumption at full load         < 0.11 Sent to some in Actuality in Consumption at full load         < 0.11 Sent to some in Actuality in Consumption at full load         < 0.11 Sent to some in Actuality in Consumption at full load         < 0.11 Sent to some in Actuality in Consumption at full load         < 0.11 Sent to some in Actuality in Consumption at full load         < 0.11 Sent to some in Actuality in Consumption at full load         < 0.11 Sent to some in Actuality in Consumption at full load         < 0.11 Sent to some in Actuality in Consumption at full load         < 0.11 Sent to some in Actuality in Consumption at full load         < 0.11 Sent to some in Actuality in Consumption at full load         < 0.11 Sent to some in Actuality in Consumption at full load	Model	N67TM1X	Oil pan capacity with filter - gal (L)	4.5 (17.2)
Cancers of the converse menual interfacts of under the part of the converse menual interfacts of the converse menual in	EPA certified	Tier 3	Oil cooler	Liquid
Injection         Direct         Oil pressure – pai (kPA)         72.6 (BOC)           Aspiration         Turbocharged aftercooled airain         ENGINE ELCTRICAL SYSTEM         Herein Controls and airain         ENGINE ELCTRICAL SYSTEM         ENGINE ELCTRICAL SYSTEM <td< td=""><td>Crankshaft speed</td><td>1,800 rpm</td><td>Recommended lubricating oil grade</td><td></td></td<>	Crankshaft speed	1,800 rpm	Recommended lubricating oil grade	
Aspiration         Turbocharged aftercooled air/air         ENCINE ELECTRICAL SYSTEM           Number of Cylinders         6         Starting motor voltage         12 volt           Opinder arrangement         In-line         Cold Cranking Arraps - minimum         650 Arrap           Displacement CID (liters)         408 9 6.7         Battery charging Alemator         09 Arrap           Ber and Stroke ins (mm)         4.1 x 5.2 (104 x 132)         Battery charging Alemator         050CCA 950CA 950C	Туре	Diesel, 4-stroke	Oil consumption at full load	< 0.1% of fuel consumption
Number of Cylinders         6         Starting motor voltage         12 volt           Cylinder arrangement         In-line         Cold Cranking Arps - minimum         650 Armp           Displacement CID (liters)         408 9 67)         Battery charging Attenator         90 Amp           Bore and Stroke ins (mm)         11 x 52 (104 x 132)         Battery capacity         GoodCCA 850CCA 158CC GROUP SIZE 2aF           Nominal power         198.5 hp         Cooling         Cooling         Governor         Mechanical           Governor Regulation Class         ISO 8528 Part 1 Class G3	Injection	Direct	Oil pressure – psi (kPA)	72.6 (500)
Cylinder arrangement         In-line         Cold Cranking Amps - minimum         680 Amp           Displacement CID Uters)         408.9 Nb.7         Battery charging Atternator         90 Amp           Bore and Stroke ins frmm)         4.1 x 5.2 (104 x 132)         Battery charging Atternator         90 Amp           Bore and Stroke ins frmm)         198.5 hp         Governor         Governor         Ideal	Aspiration	Turbocharged aftercooled air/air	ENGINE ELECTRICAL SYSTEM	
Displacement CID (liters)         408.9 (6.7)         Battery charging Atternator         90 Amp           Bore and Stroke ins (mm)         4.1 x 5.2 (104 x 132)         Battery capacity         6500CA 850CA 115RC GOUP SIZE 24F           Nominal power         198.5 hp	Number of Cylinders	6	Starting motor voltage	12 volt
Batery capacity         Battery capacity capacity capacity	Cylinder arrangement	In-line	Cold Cranking Amps - minimum	650 Amp
Bode Bastration         CGROUP SIZE 24F           Nominal power         196.5 hp           Cooling         Liquid           Governor         Mechanical           Governor Regulation Class         ISO 8528 Part 1 Class G3           Frequency Regulation         So 8528 Part 1 Class G3           Starting motor & alternator         12 Volt           Compression ratio         12 Volt           Ar cleaner type         Heavy dury single cartidge           Munfacturer         STAMFORD           Model 120/240V Single phase         UCI24D           Model 120/240V Three phase         UCI24D           Model 270/80V Three phase         UCI24D           Number of leds         1 leds, reconnectable           Stator Price         Stator Price	Displacement CID (liters)	408.9 (6.7)	Battery charging Alternator	90 Amp
Coling         Liquid           Governor         Mechanical           Governor Regulation Class         SO 8528 Part 1 Class G3           Frequency Regulation         Mechanical Droop, Less than 5%           Starting motor & alternator         12 Volt           Compression ratio         12 Volt           Arr cleaner type         Heavy duty - single cartridge           Attractor SPECIFICATION         TATERNATOR SPECIFICATION           Manufacturer         STAMFORD           Model 120/240V Single phase         UCI274D           Model 120/200V Three phase         UCI274D           Model 277/480V Three phase         UCI274D           Nomer factor         0.8           Number of leads         12 leads, reconnectable           Stator Pitch         23           Number of leads         12 leads, reconnectable           Stator Pitch         Class H (125/40° C)           Enclosure (IEC-34-S)         IP3           Beering         Single, sea	Bore and Stroke ins (mm)	4.1 x 5.2 (104 x 132)	Battery capacity	
Governor         Mechanical           Governor Regulation Class         ISO 8528 Part 1 Class G3           Frequency Regulation         Mechanical Droop, Less than 5%           Starting motor & alternator         12 Volt           Compression ratio         175.1           Air cleaner type         Heavy duty - single cartridge           Attrenator         STAMFORD           Model 120/200V Single phase         UCI274D           Model 120/200V Single phase         UCI274D           Model 120/200V Three phase         UCI274D           Model 127/480V Three phase         UCI274D           Norder Type         Four pole, rotating field           Excitation System         Brushless           Power factor         0.8           Number of leads         12 leads, reconnectable           Stator Pitch         2/3           Isulation         Class H (125/40° C)           Enclosure (IEC-34-S)         IP23           Bearing         Single, sealed </td <td>Nominal power</td> <td>198.5 hp</td> <td></td> <td></td>	Nominal power	198.5 hp		
Governor Regulation Class         ISO 8528 Part 1 Class G3           Frequency Regulation         Mechanical Droop, Less than 5%           Starting motor & alternator         12 Volt           Compression ratio         12 Volt           Air cleaner type         Heavy duty - single cartridge           AITERNATOR SPECIFICATION         VOLT24D           Model 120/240V Single phase         UCI274D           Model 120/240V Three phase         UCI274D           Model 27/480V Three phase         UCI274D           Aternator Type         Four pole, rotating field           Excitation System         12 leads, reconnectable           Stator Pitch         2/3           Insulation         Class H (125/40° C)           Enclosure IEIC-34-S)         IP23           Enclosure IEIC-34-S)         IP24           Voltage regulation – no load to full load with         1%           Voltage regulation – no load to full load with         1%           Voltage regulation – no load to full load with         1%           Voltage regulation – no load to full load with         1%           Voltage regulation	Cooling	Liquid		
Frequency Regulation         Machanical Droop, Less than 5%           Starting motor & alternator         12 Volt           Compression ratio         125.1           Air cleaner type         Heavy duty - single cartridge           ALTERNATOR SPECIFICATION         VICI274D           Model 120/204V Single phase         UCI274D           Model 120/204V Three phase         UCI274D           Model 347/600V Three phase         UCI274D           Altenator Type         Four pole, rotating field           Excitation System         Bushless           Power factor         2.8           Number of leads         12 leads, reconnectable           Stator Pitch         2.8           Insulation         Class H (125/40° C)           Enclosure (IfC-34-S)         IP23           Bearing         Side je sealed           Coupling         Fiexible disc           Coupling         ± 1%           Victage regulation – no leads to full load with         ± 1%           Victage regulation – no lead to full load with         ± 1%	Governor	Mechanical		
Prequency Regulation         5%           Starting motor & alternator         12 Volt           Compression ratio         15:1           Air cleaner type         wer youty - single cartridge           ALTERNATOR SPECIFICATION         EVENUME           Manufacturer         STAMFORD           Model 120/2004 Vingle phase         UCI274D           Namber of leads         Isenshese           Number of leads         Isens H           Vindings - Temperature Rise <td>Governor Regulation Class</td> <td>ISO 8528 Part 1 Class G3</td> <td></td> <td></td>	Governor Regulation Class	ISO 8528 Part 1 Class G3		
Data Series         Figure Procession ratio           Compression ratio         125:1           Air cleaner type         Heavy duty - single cartridge           ALTERNATOR SPECIFICATION         Image: Second	Frequency Regulation			
Air cleaner type     Heavy duty - single cartridge       Atrenance     Heavy duty - single cartridge       AtternATOR SPECIFICATION     STAMFORD       Mandfacturer     STAMFORD       Model 120/240V Single phase     UC1274D       Model 120/200V Three phase     UC1274D       Atternator Type     Four pole, rotating field       Excitain System     Brushless       Power factor     0.8       Number of leads     12 leads, reconnectable       Stator Pitch     2/3       Insulation     Class H (125/40° C)       Enclosure (IEC-34-S)     IP23       Bearing     Single, sealed       Coupling     File       Aportisseur windings     Full       Voltage regulation – no load to full load with AS440 AVR     ± 1%       Tip     <50	Starting motor & alternator	12 Volt		
AtterNATOR SPECIFICATION           Manufacturer         STAMFORD           Model 120/240V Single phase         UCI274D           Model 120/208V Three phase         UCI274D           Model 120/208V Three phase         UCI274D           Model 120/208V Three phase         UCI274D           Model 347/600V Three phase         UCI274D           Atternator Type         Four pole, rotating field           Excitation System         Brushless           Power factor         0.8           Number of leads         12 leads, reconnectable           Stator Pitch         23           Insulation         Class H           Vindings –Temperature Rise         Isingle, sealed           Coupling         Flexible disc           Amortisseur windings         Full           Vitage regulation – no load to full load with AS440 AVR         ± 1%           TIF         <50	Compression ratio	17.5:1		
ManufacturerSTAMFORDModel 120/240V Single phaseUCl274DModel 120/208V Three phaseUCl274DModel 277/480V Three phaseUCl274DModel 347/600V Three phaseUCl274DAlternator TypeFour pole, rotating fieldExcitation SystemBrushlessPower factor0.8Number of leads12 leads, reconnectableStator PitchIleads, reconnectableStator PitchClass HWindings – Temperature RiseClass H (125/40° C)Enclosure (IEC-34-S)Single, sealedCouplingFlexible discAmortsseur windings\$ullViltage regulation – no load to full load with X6440 A/VR1%Tif<50	Air cleaner type	Heavy duty - single cartridge		
Model         UCI274D           Model         UCI274D           Model         UCI274D           Model         UCI274D           Model         UCI274B0/Three phase           UCI274B0/Three phase         UCI274D           Model         UCI274D           Model         UCI274B0/Three phase           UCI274D         UCI274D           Model         UCI274D           Atemator Type         Four pole, rotating field           Excitation System         Brushless           Power factor         0.8           Number of leads         12 leads, reconnectable           Stator Pitch         2/3           Insulation         Class H           Windings – Temperature Rise         Class H (125/40° C)           Enclosure (IEC-34-S)         IP23           Bearing         Single, sealed           Coupling         Full           Amortisseur windings         Full           Voltage regulation – no load to full load with X5440 AVR         ± 1%           TIF         <50	ALTERNATOR SPECIFICATION			
Model 120/208V Three phase         UCl274D           Model 277/480V Three phase         UCl274D           Atternator Type         Four pole, rotating field           Excitation System         Brushless           Power factor         0.8           Number of leads         12 leads, reconnectable           Stator Pitch         2/3           Insulation         Class H           Windings – Temperature Rise         Class H (125/40° C)           Eacing         Single, sealed           Coupling         Fexible disc           Anortisseur windings         Full           Volde jace regulation – no load to full load with stator         ± 1%           TIF         <50	Manufacturer	STAMFORD		
Model 277/480V Three phaseUCl24CModel 347/600V Three phaseUCl24DAlternator TypeFour pole, rotating fieldExcitation SystemBrushlessPower factor0.8Number of leads12 leads, reconnectableStator PitchClass HInsulationClass H (125/40° C)Enclosure (IEC-34-S)IP23BearingSingle, sealedCouplingFullVortage regulation – no load to full load with± 1%TiF<0	Model 120/240V Single phase	UCI274D		
Model 347/600V Three phaseUCI274DAlternator TypeFour pole, rotating fieldExcitation SystemBrushlessPower factor0.8Number of leads12 leads, reconnectableStator Pitch2/3InsulationClass HWindings - Temperature RiseClass H (125/40° C)Enclosure (IEC-34-S)IP23BearingSingle, sealedCouplingFileAmortisseur windingsFullVirtage regulation - no load to full load with± 1%TIF<50	Model 120/208V Three phase	UCI274D		
Alternator TypeFour pole, rotating fieldExcitation SystemBrushlessPower factor0.8Number of leads12 leads, reconnectableStator Pitch2/3InsulationClass HWindings – Temperature RiseClass H (125/40° C)Enclosure (IEC-34-S)IP23BearingSingle, sealedCouplingFlexible discAmortisseur windingsFullVirdage regulation – no load to full load with SA440 AVR± 1%TIF<50	Model 277/480V Three phase	UCI274C		
Excitation SystemBrushlessPower factor0.8Number of leads12 leads, reconnectableStator Pitch2/3InsulationClass HWindings - Temperature RiseClass H (125/40° C)Enclosure (IEC-34-S)IP23BearingSingle, sealedCouplingFlexible discAmortisseur windingsFullVitage regulation - no load to full load with AS440 AVR± 1%TiF<50	Model 347/600V Three phase	UCI274D		
Power factor         0.8           Number of leads         12 leads, reconnectable           Stator Pitch         2/3           Insulation         Class H           Windings – Temperature Rise         Class H (125/40° C)           Enclosure (IEC-34-S)         IP23           Bearing         Single, sealed           Coupling         Flexible disc           Amortisseur windings         Full           Voltage regulation – no load to full load with AS440 AVR         ± 1%           TIF         <50	Alternator Type	Four pole, rotating field		
Number of leads       12 leads, reconnectable         Stator Pitch       2/3         Insulation       Class H         Windings - Temperature Rise       Class H (125/40° C)         Enclosure (IEC-34-S)       IP23         Bearing       Single, sealed         Coupling       Flexible disc         Amortisseur windings       Full         Vitage regulation – no load to full load with AS440 AVR       ± 1%         TIF       <50	Excitation System	Brushless		
Stator Pitch2/3InsulationClass HWindings - Temperature RiseClass H (125/40° C)Enclosure (IEC-34-S)IP23BearingSingle, sealedCouplingFlexible discAmortisseur windingsFullVoltage regulation - no load to full load with AS440 AVR± 1%TIF<50	Power factor	0.8		
Insulation       Class H         Windings – Temperature Rise       Class H (125/40° C)         Enclosure (IEC-34-S)       IP23         Bearing       Single, sealed         Coupling       Flexible disc         Amortisseur windings       Full         Voltage regulation – no load to full load with XS440 AVR       ± 1%         TIF       <50	Number of leads	12 leads, reconnectable		
Windings – Temperature RiseClass H (125/40° C)Enclosure (IEC-34-S)IP23BearingSingle, sealedCouplingFlexible discAmortisseur windingsFullVoltage regulation – no load to full load with AS440 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 AS440 AVR       ± 1%         TIF       <50	Insulation	Class H		
Bearing       Single, sealed         Coupling       Flexible disc         Amortisseur windings       Full         Voltage regulation – no load to full load with AS440 AVR       ± 1%         TIF       <50	Windings – Temperature Rise	Class H (125/40° C)		
Coupling     Flexible disc       Amortisseur windings     Full       Voltage regulation – no load to full load with AS440 AVR     ± 1%       TIF     <50	Enclosure (IEC-34-S)	IP23		
Amortisseur windings     Full       Voltage regulation – no load to full load with AS440 AVR     ± 1%       TIF     <50	Bearing	Single, sealed		
Amortisseur windings         Voltage regulation – no load to full load with AS440 AVR         TIF       <50	Coupling	Flexible disc		
AS440 AVR TIF <50 Radio Frequency Emissions compliance Meets requirements of most industrial and commercial applications	Amortisseur windings	Full		
Radio Frequency Emissions compliance Meets requirements of most industrial and commercial applications		± 1%		
	TIF	<50		
Line harmonics 5% maximum	Radio Frequency Emissions compliance	Meets requirements of most inc	lustrial and commercial applications	
	Line harmonics	5% maximum		



#### HDI100F - 100Kw

## STANDARD FEATURES



Enclosure (If selected)	Engine System	Fuel System
Rust-Proof Fastener with Nylon Washers Protect Finish	Oil Drain Extension	Primary Fuel Filter
High Performance Sound-Absorbing Material (L1)	Air Cleaner	Flexible fuel lines
Gasketed Doors	Fan Guard	Generator set
Air Discharge Hoods for Radiators- Upwards Pointing	Factory Filled Oil	2 Year/2000 hours Limited Warranty
Lift Off Door Hinges	Battery Charging Alternator	Separation of Circuits – Multiple Breakers (load center)
Stainless Steel Lockable Handles	Alternator Systems	Separation of Circuits – High / Low Voltage
Textured Polyester Powder Coat	12 Leads (3-Phase, Non 600V)	Internal Genset Vibration Isolation
Cooling System	Class H Insulation Material	Wrapped Exhaust Piping
Factory-Installed Radiator	Vented Rotor	Standard Factory Testing
Radiator Drain Extension	2/3 Pitch	Emergency Stop
50/50 Ethylene Glycol Antifreeze	Full Load Capacity Alternator	Silencer Mounted in the Discharged Hood (Enclosed Only)
Electrical Systems	Protective Thermal Switch	
Battery Cables and Battery Tray	Permanent Magnet Excitation	
Batteries	Skewed Stator	

# CONTROL SYSTEM



- Charge alternator failure alarm
- 4-Line back-lit LCD text display
- Front panel editing with PIN protection
- Customizable status screens
- Power save mode
- 11 configurable inputs
- 8 configurable outputs
- Flexible sensor inputs
- Configurable timers and alarms
- 3 configurable maintenance alarms
- Multiple date and time scheduler
- Configurable event log (250)

- "Protections disabled" feature
- kW protection
- Reverse power (kW) protection
- LED and LCD alarm indication
- Power monitoring (kWh, kVAr, kVAh, kVArh)
- Load switching (load shedding and dummy load outputs)
- Independent Earth Fault trip
- Fuel usage monitor and low fuel alarms
- Configurable display languages
- User selectable simultaneous RS232, RS485 & Ethernet communications

MODBUS RTU & TCP support

- Configurable MODBUS pages
- Fully configurable via DSE
- Configuration Suite PC software
- Data logging to assist with fault

finding

PLC editor allows user configurable

functions to meet specific application

requirements

- License-free PC software
- Multiple date and time scheduler
- DSENet® expansion compatible

DSE2130 DSE2131 DSE2133 DSE2152 DSE2157 DSE2548	MODEM MOI		∲	]"	⊗.	1	¢.	C.	i i
DSENET EXPANSION	RS232 AND RS485		ISB CONFIG	URABLE	DC OUTPUTS	AS	NALOGUE ENDERS	EMERGENCY STOP	DC POWER SUPPLY 8-35V
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									DEUTZ ISUZU PERKINS CATERPILLAR MTU VOLVO CUMMINS SCANIA
MAINS (UTILITY) SE BUS SENSING (DSI	ENSING (DSE7420) E7410)	N/C VOLT FREE OUTPUT	N/O VOLT FREE OUTPUT	GENERATO	OR SENSING		CHARGE	FUEL & CRANK OUTPUTS FLEXIBLE WITH CAN	ELECTRONIC ENGINES & MAGNETIC PICK-UP
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	1ph 2ph 3ph N			2		1ph 2ph 3ph N			



# **CONFIGURABLE OPTIONS**

ENCLOSURE	ENGINE SYSTEM	ELECTRICAL SYSTEM
Open Skid	Oil heater	Battery Warmer
Level 1 Sound attenuated	120V-1ph Water Jacket Heater (with Isolation Valves)	10A Battery Charger
Level 2 Sound attenuated	208V-3ph Water Jacket Heater (with Isolation Valves)	6A Battery Charger
	CIRCUIT BREAKER OPTIONS	10 Positions Load Center (100Amps)
ALTERNATOR SYSTEM	Thermal-Magnetic trip 80% and 100%% rated	Remote ESTOP with N3R break glass
Anti-condensation heater	LS/I Electronic trip 80% and 100% rated	120V GFCI receptacle
Alternator upsizing	LSI Electronic trip 80% and 100% rated	10A Relay common alarm
Rheostat	LSIG Electronic trip 80% and 100% rated	10A Run Relay
MX321 AVR	Shunt trip	8 Led Remote Annunciator on Surface mounted Box
	Auxiliary Contacts for Main and Secondary Breaker	16 Led Remote Annunciator on Surface mounted Box
	Second Main Line Circuit Breaker	24 Led Remote Annunciator on Surface mounted Box
	Mechanical Lugs	

GENERATOR SET

Extended Factory Load Testing Extended Warranty Seismic Mounts

# **ENGINEERED OPTIONS**

ENCLOSURE	ENGINE SYSTEM	ELECTRICAL SYSTEM
Snow Hood (only with L2)	Fluid Containment Pan	AC/DC Enclosure Lighting Kit with Timer
Air Outlet Gravity dampers		Enclosure Heater
Air Inlet motorized dampers (only with L2)		240V Twist lock receptacle
CIRCUIT BREAKER OPTIONS	CONTROL SYSTEM	GENERATOR SET
3rd Breaker system	Spare inputs (x4) / output (x4)	Special Testing
Shunt Trip on 3rd Breaker	DSE8610 - Parallel controller with motorized CB	ALTERNATOR SYSTEM
Auxiliary contact on 3rd Breaker	DSE2130 - DSENet Input Expansion Module	Tropical coating
FUELTANK	DSE2157 - DSENet Output Expansion Module	
Custom Size – 72hr and 96hr	DSE855 - DSENet USB to Ethernet ModBusTCP/ IP Communication Module	-
Custom type to meet State spec.	DSE892 - DSENet USB to Ethernet ModBusTCP/ IP - SNMP Comm. Module	-
Vent Extensions	DSE2520 - Remote Display Module	







# **OPERATING DATA**

FUEL SYSTEM	
Recommended fuel	# 2 - ULSD
Fuel supply line, min. ID mm (in.)	9.5 - (3/8")
Fuel return line, min. ID, mm (in.)	9.5 - (3/8")
Max. lift, fuel pump, type, m (ft)	TBD
Fuel filter	Secondary 5 Microns @ 98% Efficiency

FUEL CONSUMPTION		(Standby Power Rating)
100% load	US Gal/hr (L/hr)	7.8 (29.5)
75% load	US Gal/hr (L/hr)	5.7 (21.6)
50% load	US Gal/hr (L/hr)	2.9 (11)
25% load	US Gal/hr (L/hr)	1.45 (5.5)

COOLING SYSTEM		
Engine cooling air flow	cfm (m³/min)	8,052 (228)
Alternator cooling flow	cfm (m³/min)	1,307 (37)
Combustion air flow	cfm (m³/min)	389 (11)
Total cooling air flow (engine+alternator+combustion)	cfm (m³/min)	9,748 (276)
Total cooling capacity	US gallons (liters)	3.96 (15)
Max. Operating Temperature	°F (°C)	122 (50)

EXHAUST		
Exhaust gas flow	cfm (m³/min)	910 (25.8)
Max. Exhaust temp at full load degrees	°F (°C)	896 (480)
Max. permissible back pressure	in H2O (kPA )	20 (5)

# Starting Capabilities (sKVA)

		120/	′240V (	1PH)			277/480V			208/240V				347/600V						
Alternator	10%	15%	20%	25%	30%	10%	15%	20%	25%	30%	10%	15%	20%	25%	30%	10%	15%	20%	25%	30%
Standard	75	120	170	225	290	90	140	200	265	340	110	175	250	330	420	110	175	250	335	430
Upsized	70	110	160	210	270	110	175	250	330	420	115	180	260	350	440	115	185	260	350	450

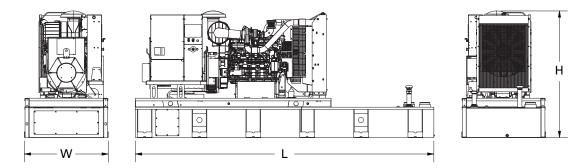
# **Circuit Breaker**

	120/240V (1PH)	277/480V	120/208V	120/240V	347/600V
Make and model	ABB T6N600TW	ABB XT3NU3150AFF000XXX	ABB T5N400BW	ABB T5N300TW	ABB XT1NU3125AFF000XXX
Amps	600 A	150 A	400 A	300 A	125 A

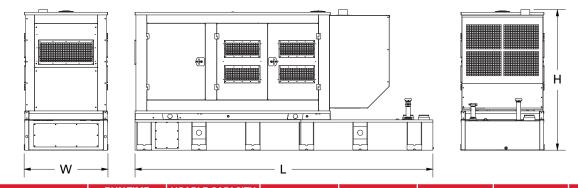




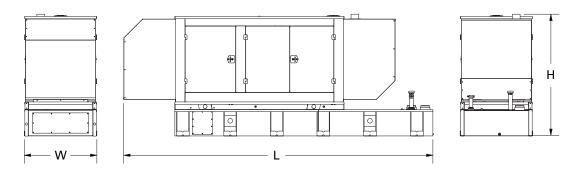
## DIMENSIONS, WEIGHTS & SOUND LEVELS



CONFIGURATION	RUN TIME (HOURS)	USABLE CAPACITY (Gal.)	L = Length	W = Width	H = Height	Weight Ibs	dBA
	No Tank	-	109″	46.3"	54"	3,120	N/A
OPEN SET	42	320	167″	46.7″	71″	4,621	
	83	640	167″	46.7"	85″	5,200	



	CONFIGURATION	RUN TIME (HOURS)	USABLE CAPACITY (Gal.)	L = Length	W = Width	H = Height	Weight Ibs	dBA
	LEVEL 1 ENCLOSURE	No Tank	-	142.1″	46.3″	60.1″	4,520	74
		42	320	167″	46.7"	78.1″	6,021	
		83	640	167″	46.7"	92.2″	6,620	



	CONFIGURATION	RUN TIME (HOURS)	USABLE CAPACITY (Gal.)	L = Length	W = Width	H = Height	Weight Ibs	dBA
	LEVEL 2 ENCLOSURE	No Tank	-	175.2″	46.3″	60.1″	4,620	72
		42	320	199.1″	46.7″	78.1″	6,121	
		83	640	199.1″	46.7″	92.2″	6,720	



\* All measurements are approximate and for estimation purposes only. Weights are without fuel tank. Sound levels measured at 23ft (7m) and does not account for ambient site conditions.

\*Pictures above are for visual representation only, may not represent options or bill of material supplied.

### Intertek

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

#### **HIMOINSA POWER SYSTEMS, INC.**

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**REV-12** 

