

MODEL

HRJW-190T4F

60Hz | MOBILE/PRIME/STANDBY POWER

152 kW | 1800RPM



VOLTAGE VAC	120/240V		120/208V		120/240V		277/480V		347/600V**	
RATING	Prime	Standby	Prime	Standby	Prime	Standby	Prime	Standby	Prime	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	115	126	152	167.0	152	167.0	152	167.0	N/A	N/A
KVA	115	126	190	208.7	190	208.7	190	208.7	N/A	N/A
AMPS	479	525	527	578	457	503	228	251	N/A	N/A
SKVA @30% VOLTAGE DIP	380		580		580		730		N/A	

DESCRIPTION

HIPOWER® Mobile generators are an efficient, reliable and versatile source of mobile electrical power. Designed to operate in the most extreme working conditions. All HIPOWER® Mobile Generators combine an innovative design and the use of high quality materials that provide the user with the most dependable power that you can rely on for non-stop power with easy to operate controls.

Powered by a radiator-cooled, industrial John Deere Diesel engine, which meets current Environmental Protection Agency (EPA) TIER 4 Final non-road exhaust emission regulations, driving a single bearing, four-pole, three-phase alternator, with IP23 protection. The Prime Power kVA rating for generator set is given with a 105 degree °C alternator winding temperature rise.

HIPOWER® FEATURES AND BENEFITS

John Deere Diesel Engine: Long-life, heavy-duty, 4-cycle, direct injection engine 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, 60Hz brushless alternator with permanent magnetic generator (PMG), with Class F insulation. Automatic voltage regulator (AVR) providing close voltage regulation and skVA starting capability for electric motor loads.

Certification: ISO 8528-5.

Fuel Tank: Environmentally friendly steel base welded sub-base fuel tank with internal filling system and 110% containment capability for any diesel fuel, coolant or engine oil spills. Easy access for maintenance activities.

Enclosure: Fully sound attenuated enclosure, fabricated in 11-gauge steel, powder coated with finish that exceeds 1000-hr salt spray test, curved edges, minimum outside fasteners and single point lift. Ample layer of durable Rockwool sound insulating material placed all around the inside of the container, doors and ducting with metal retaining frames. It can be cleaned with high-pressure water and is oil and fire resistant. Vertical air discharge for quiet operation. Wide steel lockable access doors with rubber 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 with rain cap.

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

Voltage Selector Switch: Three-position, manual voltage selector switch. Lockable in three positions for switching set between 120/240V single phase and 120/208 and 277/480V 3-phase.

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. Load Connections: Covered distribution panel for easy access to cable power outlets, receptacles, lugs and Camlocks.

HIMOINSA POWER SYSTEMS, INC.

16600 South Theden Street, Olathe, KS 66062

Tel: 913 495 5557 | HIPOWERSYSTEMS.COM

Codes and Standards Compliances used where applicable



APPLICATION DATA

ENGINE SPECIFICATION		LUBRICATION SYSTEM	
Manufacturer	John Deere	Oil pan capacity - Gal. (L)	9.03 (34)
Model	6068HFG05	Oil pan capacity with filter - Gal. (L)	9.53 (35.8)
EPA Certified	Tier 4 FINAL	Oil cooler	Liquid
Crankshaft Speed	1,800 rpm	Recommended lubricating oil grade	SAE 10W-40 conventional DH4 (refer to owners manual)
Type	Diesel, 4-stroke	Oil consumption at full load	< 0.1% of fuel consumption
Injection	Direct	Oil pressure – psi (kPA)	46 (320)
Aspiration	Turbocharged	ENGINE ELECTRICAL SYSTEM	
Number of Cylinders	6	Starting Motor Voltage	12 volt
Cylinder Arrangement	In-line	Cold Cranking Amps - minimum	102 Amp
Displacement CID (liters)	414.96 (6.8)	Battery Charging Alternator	110 Amp
Bore & Stroke Ins (mm)	4.17 x 5.0 (106 x 127)	Battery Capacity	1050 Amps
Nominal Power	277 hp		
Cooling	Liquid		
Governor	Electronic		
Governor Regulation Class	ISO 8528 Part 1 Class G3		
Frequency Regulation	Isochronous		
Starting Motor & Alternator	12 volt		
Compression Ratio	17.2:1		
Air Cleaner Type	Heavy duty - single cartridge		
Exhaust Gas Flow cu. ft./minute (cu.m. /minute)	932 (26.4)		
Max. Exhaust Temp at Full Load Degrees °F (°C)	756 (402)		
Max. Permissible Back Pressure ins H2O (kPA)	53.2 (13.3)		
ALTERNATOR SPECIFICATION			
Manufacturer	STAMFORD		
Model	UCI274G with PMG		
Voltages	120/208V 277/480V 120/240V		
Alternator Type	Four pole, rotating field		
Excitation System	Brushless, PMG-excited		
Power Factor	0.8/1.0		
Number of Leads	12 leads, reconnectable		
Stator Pitch	2/3		
Insulation	Class H		
Windings – Temperature Rise	Class F (105/40° C)		
Enclosure (IEC-34-S)	IP23		
Bearing	Single, sealed		
Coupling	Flexible disc		
Amortisseur Windings	Full		
Voltage Regulation – No load to full load with MX341 AVR	± 1%		
TIF	<50		
Radio Frequency Emissions Compliance	Meets requirements of most industrial and commercial applications		
Line Harmonics	5% maximum		

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APPLICATION DATA

FUEL SYSTEM

Recommended Fuel	# 2 - ULSD
Fuel supply line, min. ID mm(in.)	-
Fuel return line,min. ID, mm (in.)	-
Max. Lift, fuel pump, type, m (ft)	TBD
Fuel Filter	Secondary 8 Microns @ 98% Efficiency
DEF Tank Capacity - Gal.	11.9

FUEL CONSUMPTION

	PRIME POWER RATING	DEF (% of fuel consumption)
100% load – US gallons/hour	12.13 (45.9)	3.2%
75% load - US gallons/hour	9.4 (35.5)	TBD
50% load - US gallons/hour	6.8 (25.7)	TBD
25% load - US gallons/hour (liters)	4.2 (15.8)	TBD

COOLING SYSTEM

Engine cooling air flow - cu. ft./min (cu. m/min)	452 (12.8)
Alternator cooling flow - cu. ft./min (cu. m/min)	1463 (41.1)
Total cooling air flow (engine + alternator + combustion) - cu. ft./min (cu. m/min)	TBD
Total cooling capacity - US gallons (liters)	TBD
Max. Operating Temperature °F (°C)	127 (53)

STANDARD ACCESSORIES

- | | |
|--|---|
| • Air Filter Restriction Indicator | • Buck Transformer for Auxiliary 120VAC Outlets |
| • Leakage Detection Sensor | • Coolant heater |
| • Battery Switch | • Shunt Trip on MLCB |
| • Crankcase Ventilation Filter | • 3 Position Voltage Selector Switch |
| • Oil/Coolant Drain Extension | • PMG Excitation on Alternator |
| • Distribution Panel 800A | • Leakage Detector Sensor |
| • MLCB Auxiliary Contacts | • Leak Proof Tray |
| • Extended Maintenance Interval up to 500 Hrs. | • Low Coolant Level Sensor |

• Distribution power panel *See image RH back-page -

NEMA 3R/IP67 0.09" aluminum panel, black powder coated, weather proof rated; individual Square-D QOU branch breakers; 2 x 20A 125V NEMA5-20 GFCI duplex receptacles; 3 x 50A 125/250V CS6369 twist-lock receptacles & Lexan covers; 2 x15A 125V NEMA 5-15P Shore line connector; 2 sets 400A single pin Camlocks rated 400A with snap covers; color coded Camlocks 3Ph - 5W black, red blue, white & green; pad lockable 1/4 turn door access with cable trap; auxiliary bus bars with mechanical lugs; 1 single barrel lug per phase; mechanical lugs up to 2 x 600MCM cable

OPTIONAL ACCESSORIES

- | | |
|---|---|
| • Battery Blanket | • Oil Pan Heater |
| • Hydronic heater (5 kw) | • Engineered Options Available upon Request |
| • 3-Way Fuel Valve | • Control Panel Heater |
| • 6 Amp - 10 Amp battery charger, 12/24V, UL Listed | • 4 Position Voltage Selector Switch |

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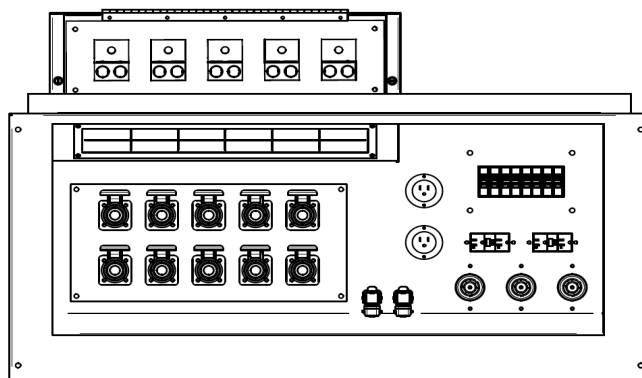
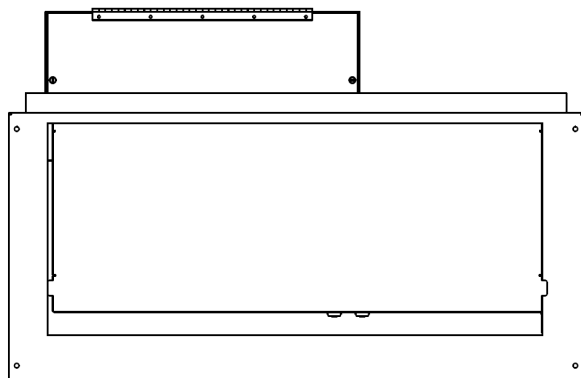
CONTROL SYSTEMS STANDARD FEATURES - Generator Digital Control Panel

HIPOWER® COMAP IG500 Control Panel: The IntelliGen 500 digital control panel is back-lit with icon LCD text display, and is PC configurable. IntelliGen 500 is a comprehensive controller for both single and multiple gen-sets operating in standby or parallel modes. Compact construction is optimized for these purposes and various modifications allow customers to select the optimum type for a particular application. A built-in synchronizer and digital isochronous load sharer allow a total integrated solution for gen-sets in standby, island parallel or mains parallel. Native cooperation of up to 32 gen-sets is a standard feature. IntelliGen 500 supports many standard ECU types and is specially designed to easily integrate new ones.

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, reverse power, and incorrect phase sequence.



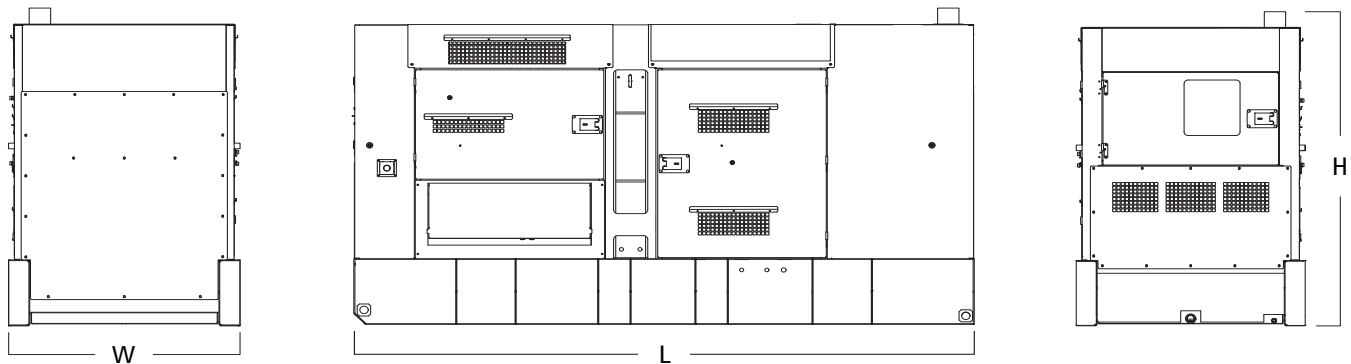
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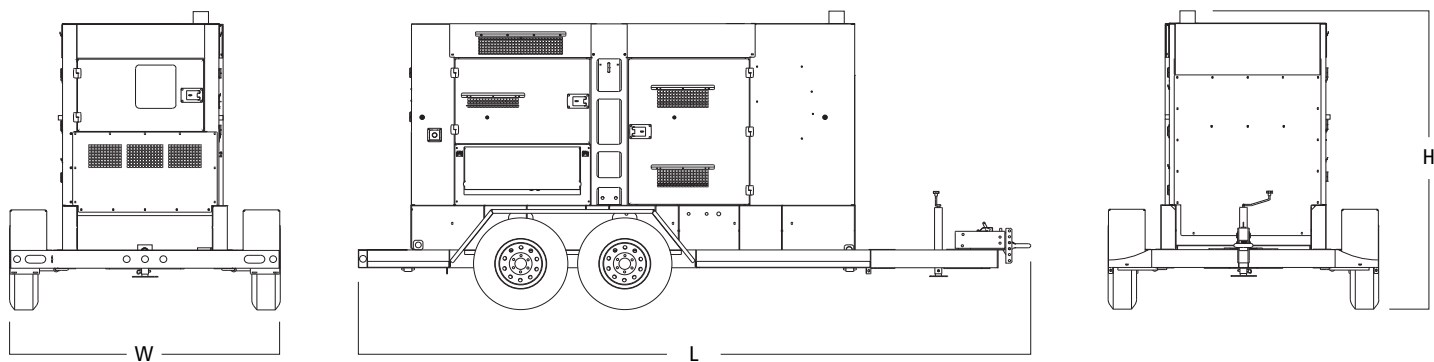


DIMENSIONS, WEIGHTS & SOUND LEVELS



CONFIGURATION	FUEL TANK DATA (BASE OPTION)			GENERATOR DATA *				
	RUN TIME HOURS	CAPACITY (Gals) DEF	CAPACITY (Gals) DIESEL	L = LENGTH	W = WIDTH	H = HEIGHT	WEIGHT LBS	DBA
Enclosed Set with Standard Fuel Tank	10	11.9	130	145"	54"	84.4"	8,200	72
Enclosed Set with Extended Fuel Tank	27	11.9	335	145"	54"	90.4"	8,830	72

ENCLOSED SET WITH TRAILER



CONFIGURATION	FUEL TANK DATA (BASE OPTION)			GENERATOR DATA *				
	RUN TIME HOURS	CAPACITY (Gals) DEF	CAPACITY (Gals) DIESEL	L = LENGTH	W = WIDTH	H = HEIGHT	WEIGHT LBS	DBA
Enclosed Set with Standard Fuel Tank & Trailer	10	11.9	130	225"	88.2"	103"	9,760	72
Enclosed Set with Extended Fuel Tank & Trailer	27	11.9	335	225"	88.2"	109"	10,390	72

* 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.



Certified to CSA STD C22.2#100
Certified to CSA STD C22.2#14

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