HIPOWER®

RENTAL DIESEL GENERATOR SET

MODEL

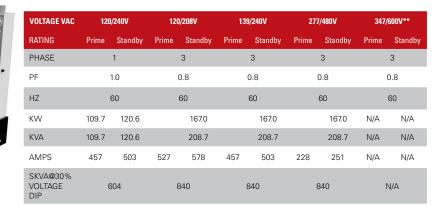
HRJW-190 T4F



152kW/60Hz/Rental/1800RPM

60Hz RENTAL/PRIME/STANDBY POWER

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Description

HIPOWER[®] rental generators are an efficient, reliable and versatile source of mobile electrical power. Designed to operate in the most extreme working conditions. All HIPOWER[®] Rental 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 reconnectable, 60Hz brushless alternator with permanent magnetic generator (EBS), with Class F insulation. Automatic voltage regulator (AVR) providing close voltage regulation and skVA starting capability for electric motor loads.

Certification: ISO 8528-5.

HIPOWER[®] Features and Benefits

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 Camloks.



APPLICATION DATA

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Max. permissible back pressure - ins H2O (kPA)53 (13.2)COLING SYSTEM52 (12.8)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)TBDTotal cooling capacity - US gallons (liters)TBDMax. Operating Temperature ° F (°C)127 (53)LUBRICATION SYSTEM9.03 (34.0)Oil pan capacity vith filter - US gallons (liters)9.53 (35.8)Oil pan capacity with filter - US gallons (liters)9.53 (35.8)Oil coolerLiquidRecommended lubricating oil gradeSAE 10W-40 conventional DH4 (refer to owners manual)Oil pansuppiton at full load< 0.1% of fuel consumption	Exhaust gas flow cu. ft./minute (cu.m. /minute)	932 (26.4)
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Recommended lubricating oil grade SAE 10W-40 conventional DH4 (refer to owners manual) Oil consumption at full load < 0.1% of fuel consumption	Oil pan capacity with filter - US gallons (liters)	9.53 (35.8)
Oil consumption at full load < 0.1% of fuel consumption	Ol cooler	Liquid
Oil pressure – psi (kPA)46 (320)ENGINE ELECTRICAL SYSTEM12 voltStarting motor voltage12 voltCold Cranking Amps - minimum102 AmpBattery charging Alternantor110 Amp	Recommended lubricating oil grade	SAE 10W-40 conventional DH4 (refer to owners manual)
ENGINE ELECTRICAL SYSTEM Starting motor voltage 12 volt Cold Cranking Amps - minimum 102 Amp Battery charging Alternantor 110 Amp	Oil consumption at full load	< 0.1% of fuel consumption
Starting motor voltage12 voltCold Cranking Amps - minimum102 AmpBattery charging Alternantor110 Amp	Oil pressure – psi (kPA)	46 (320)
Cold Cranking Amps - minimum 102 Amp Battery charging Alternantor 110 Amp	ENGINE ELECTRICAL SYSTEM	
Battery charging Alternantor 110 Amp		12 volt
	Cold Cranking Amps - minimum	102 Amp
	Battery charging Alternantor	110 Amp



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	Secondary 8 Microns @ 98% Efficiency				
FUEL COMPSUNTION	Standby Power Rating					
100% load – US gallons/hour	N/A	10.2				
75% load - US gallons/hour	N/A	8.4				
50% load - US gallons/hour	N/A	6.3				
25% load - US gallons/hour (liters)	N/A	3.8				
ALTERNATOR SPECIFICATION						
Manufacturer	STAMFORD					
Model	UCDI 274 G 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					
STANDARD ACCESSORIES						
Air Filter Restriction Indicator	Buck Transformer for Auxiliary 120VA	Buck Transformer for Auxiliary 120VAC Outlets				
Leakage Detection Sensor	• Water Jacket Heater	• Water Jacket Heater				
Battery Switch	Shunt Trip on MLCB					
Crankcase Ventilation Filter	3 Position Voltage Selector Switch					
Oil/Coolant Drain Extention	PMG Excitation on Alternator	PMG Excitation on Alternator				
Distribution Panel 800A	Leakage Detector Sensor					
Low Coolant Level Sensor	Leak Proof Tray					
 Extended Maintenance Interval up to 500 Hrs. 	 MLCB Auxiliary Contacts 					

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

NEMA 5/1067 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 3 - 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	Low cooland level Sensor
• 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	Oil Pan Heater



CONTROL SYSTEMS STANDARD FEATURES - Generator Digital Control Panel

HIPOWER[®] COMAP IntelliGen NT Control Panel: The IntelliGen NT digital control panel is back-lit with icon LCD text display, and is PC configurable. IInteliGen NT 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 gensets in standby, island parallel or mains parallel. Native cooperation of up to 32 gen-sets is a standard feature. InteliGen NT supports many standard ECU types and is specially designed to easily integrate new ones.

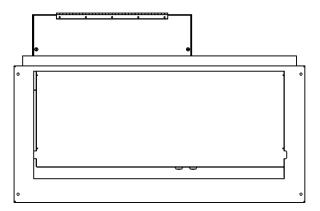
Engine alarms included: High coolant temperature, low oil pressure, low

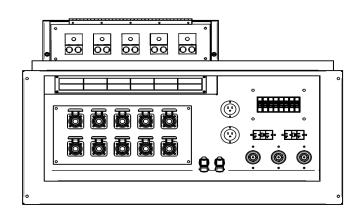
coolant level, unexpected shutdown, low fuel level, stop failure, low battery voltage, battery charging alternator failure, over-speed, under-speed, start failure and emergency stop. Support of engines with ECU (J1939, Modbus and other proprietary interfaces); alarm codes displayed in text form.



Alternator alarms included: Overload, unbalanced voltage, over voltage, under voltage, over frequency, under frequency, short circuit, reverse power, and incorrect phase sequence.

DISTRIBUTION PANEL VIEW

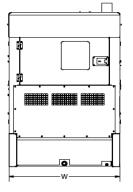


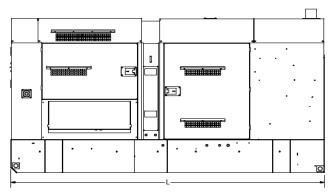


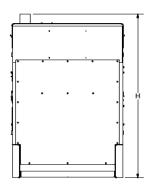


DIMENSIONS, WEIGHTS & SOUND LEVELS

ENCLOSED SET

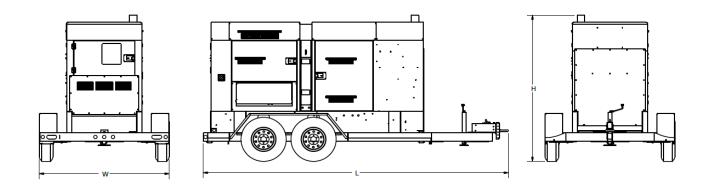






	Fuel Tank Data (base option)		Generator Data *				
	Run Time Hours	Capacity (Gals)	L = Length	W = Width	H = Height	Weight Ibs	dBA
Enclosed Set	12	130	145″	54″	84.4"	8200	72

ENCLOSED SET WITH TRAILER



CONFIGURATION	Fuel Tank Data (base option)		Generator Data *				
	Run Time Hours	Capacity (Gals)	L = Length	W = Width	H = Height	Weight Ibs	dBA (@23ft)
Enclosed Set with Trailer	12	130	222″	88.2″	103″	14400	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.

