

## **RENTAL DIESEL GENERATOR SET**

MODEL

# **HRJW-325 T4F**





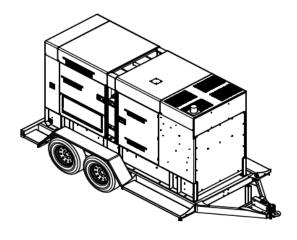


260kW/60Hz/Rental/1800RPM





#### 60Hz RENTAL/PRIME/STANDBY POWER



VOLTAGE VAC	120/240V		120/208V		139/240V		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	188.0	206.7	260.0	286.0	260.0	286.0	260.0	286.0	N/A	N/A
KVA	188.0	206.7	325.0	356.2	325.0	356.2	325.0	356.2	N/A	N/A
AMPS	783	861	902	992	783	861	391	430	N/A	N/A
SKVA@30% VOLTAGE DIP	578		1050		1050		1050		N/A	
MLCB (AMPS)	1200		1200		1200		1200		N/A	

#### 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

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**

ENGINE SPECIFICATION	
Manufacturer	JOHN DEERE
Model	6090HFG06
EPA certified	Tier 4 FINAL
Crankshaft speed	1,800 rpm
Type	Diesel, 4-stroke
Injection	Direct
Aspiration	Turbocharged
Number of Cylinders	4
Cylinder arrangement	In-line
Displacement CID (liters)	549 (9.0)
Bore and Stroke ins (mm)	4.7 x 5.4 (118.4 x 13)
Nominal power	399 HP
Cooling	Liquid  Electronic
Governor	
Governor Regulation Class	ISO 8528 Part 1 Class G3
Frequency Regulation	Isochronous
Starting motor & alternator	12 volt
Compression ratio	16.0:1
Air cleaner type	Heavy duty - single cartridge
Exhaust gas flow cu. ft./minute (cu.m. /minute)	1448 (41)
Max. Exhaust temp at full load degrees $^{\circ}F(^{\circ}C)$	831 (444)
Max. permissible back pressure - ins H2O (kPA )	116 (29)
COOLING SYSTEM	
Engine cooling air flow - cu. ft./min (cu. m/min)	TBD
Alternator cooling flow - cu. ft./min (cu. m/min)	2100 (59)
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)	122 (50)
LUBRICATION SYSTEM	
Oil pan capacity - US gallons (liters)	9.60 (36.1)
Oil pan capacity with filter - US gallons (liters)	10.2 (38.4)
Ol cooler	Liquid
Recommended lubricating oil grade	SAE 10W-40 conventional DH4 (refer to owners manual)
Oil consumption at full load	< 0.1% of fuel consumption
Oil pressure – psi (kPA)	46 (320)
ENGINE ELECTRICAL SYSTEM	
Starting motor voltage	24 volt
Cold Cranking Amps - minimum	102 Amp X 2
Battery charging Alternantor	110 Amp
Battery capacity	950 Amps X 2









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					
FUEL COMPSUNTION	Standby Power Rating	Prime Power Rating				
100% load – US gallons/hour	TBD	19.2 (72.3)				
75% load - US gallons/hour	TBD	14.6 (55.0)				
50% load - US gallons/hour	TBD	9.4 (35.3)				
25% load - US gallons/hour (liters)	TBD	5.0 (118.2)				
ALTERNATOR SPECIFICATION						
Manufacturer	STAMFORD					
Model	HCI 434 E with PMG					
Voltages	120/208v.; 277/480v.; 120/240V					
Alternator Type	Four pole, rotating field					
Excitation System	Brushless. PMG-excited	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	Meets requirements of most industrial and commercial applications				
Line harmonics	5% maximum					
STANDARD ACCESSORIES						
Radiator with pusher fan	Standard and secondary water separato	r with visible level on fuel filters				
Medium - duty, two-stage dry element	All rotating components (i.e. fan) protect	ted with metal guards				
Heavy-duty engine start batteries in rack with cables	All hot components (i.e. exhaust) protect	ted with metal guards				
External Emergency stop switch	Ground connection prepared for ground	I spike (not supplied)				
Battery disconnect switch	Main line ABB UL listed circuit breaker for	r overload protection				

•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; 3 sets 400A single pin Camlocks rated 400A with snap covers; color coded Camlocks 3Φ - 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					
Lojack transmiter, Installed	Control Panel Heater					
• 6 Amp - 10 Amp battery charger, 12/24V, UL Listed	• Oil Pan Heater					
• 3-Way Fuel valve						





Codes and Standards Compliances used where applicable





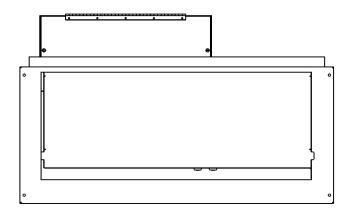
#### CONTROL SYSTEMS STANDARD FEATURES - Generator Digital Control Panel

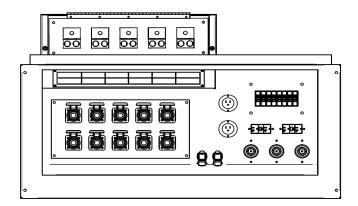
HIPOWER® COMAP IntelliGen NT Control Panel: The IntelliGen NT digital control panel is back-lit with icon LCD text display, and is PC configurable. IInteliGen NT is a comprehensive controller for both single and multiple gen-sets operating in standby or parallel modes. Compact construction is optimized 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 gen-sets in standby, island parallel or mains parallel. Native cooperation of up to 32 gensets 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.







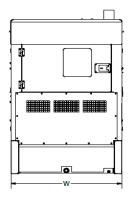


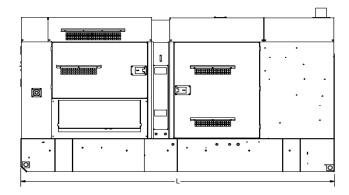
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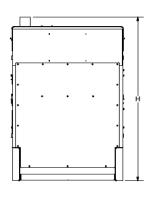


## DIMENSIONS, WEIGHTS & SOUND LEVELS

#### **ENCLOSED SET**

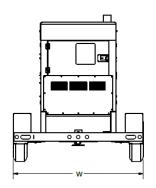


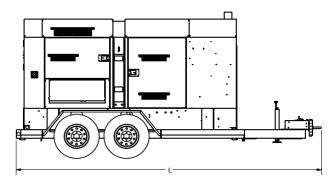


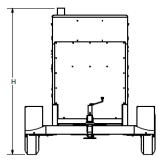


CONFIGURATION	Fuel Tank Data (base option)		Generator Data *					
	Run Time Hours	Capacity (Gals)	L = Length	W = Width	H = Height	Weight lbs	dBA	
Enclosed Set	TBD	TBD	TBD	TBD	TBD	TBD	TBD	

#### **ENCLOSED SET WITH TRAILER**







	Fuel Tank Data (base option)		Generator Data *					
CONFIGURATION	Run Time Hours	Capacity (Gals)	L = Length	W = Width	H = Height	Weight lbs	dBA	
Enclosed Set with Trailer	TBD	TBD	TBD	TBD	TBD	TBD	TBD	

<sup>\*</sup> 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.





Codes and Standards Compliances used where applicable

