

RENTAL Diesel Generator

Model: HRJW 250 T6

Specification Sheet



Photo depicts a typical model but may not include options such as trailer.

Description

HIPOWER[®] rental generators are an efficient, reliable and versatile source of mobile electrical power. They are designed to operate in the most extreme working conditions. All HIPOWER[®] Rental Generators have a unique combination of 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.

The generator set is powered by a radiator-cooled, industrial John Deere Diesel engine, which meets current Environmental Protection Agency (EPA) 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 125 degree C alternator winding temperature rise.

HIPOWER[®] Features and Benefits

John Deere Diesel Engine: Long-life, heavy-duty, 4-cycle, direct injection engine from a world renown manufacturer 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.

Filtration: 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) for reduced service and maintenance requirements, with Class H insulation. Automatic voltage regulator (AVR) providing close voltage regulation. Has a high skVA starting capability for electric motor loads.

Certification: Generator set is CSA certified and meets ISO 8528-5.

Arrangement: Engine and alternator units are closed coupled together and with mobile style anti-vibration isolators, mounted between the assembly and a heavy-duty steel base. The sturdy base frame has openings allowing for winching, slinging and forklift pockets for ease of handling

John Deere Series

60Hz Power Ratings kVA (kW)

Voltage VAC	Phase	PF	Prime		Standby	
			kVA	kW	kVA	kW
120/240	1	0.8	161.0	128.8	175.4	140.4
120/208	3	0.8	251.1	200.9	280.1	224.1
120/240 Delta	3	0.8	N.A.	N.A.	N.A.	N.A.
277/480	3	0.8	251.1	200.9	280.1	224.1
347/600	3	0.8	N.A.	N.A.	N.A.	N.A.

Rating Definitions: (N.A. = Not available for model designated)

Prime - All Rental Sets are Prime Rated - Prime rating is applicable for supplying power to a varying load in lieu of utility for an unlimited amount of running of amount of running time. (Max. load factor = 80%) A 10% overload capacity is available for 1 out of every 12 hours.

Standby - Applicable for a varying emergency load for the duration of a utility power outage with no overload capability.

HIPOWER[®] Features and Benefits

Fuel Tank: The environmentally friendly steel base contains a welded sub-base fuel tank with external filling system. The base has 110% containment capability for any diesel fuel, coolant or engine oil spills.

Easy access is provided to the tank for periodic fuel tank cleaning. A fuel level gauge is also provided as standard.

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 retainer frames. Can be cleaned by high-pressure water and is oil and fire resistant.

Vertical air discharge for quiet operation.

Wide steel lockable access doors with rubber seals, for easy entrance of all maintenance personnel and any necessary service by technicians, with stainless steel hinges, hardware and fasteners resistant to corrosion.

Exhaust: Effective 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 to operate all manual and automatic start and stop features. Many programmable automatic functions for local and remote controls with LED lights, tamper proof engine hour recorder with analog meters: voltmeter & switch, three (3) ammeters, Hz meter, fuel gauge and battery charge

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



Rental Generator Set Specification:

Specification Data

RENTAL Diesel Generator Model: HRJW 250 T6 John Deere Series

ISO 8528 Part1 Class G3			
± 1%			
± 0.5%			
Isochronous			
± 0.25%			
Meets requirements of most industrial and commercial applications			
840			
800			
John Deere			
6090HF484-258			
Tier 3 TPEM			
1,800 rpm			
Industrial, four-stroke			
HPCR			
Turbocharged			
Six (6)			
Vertical, In-line			
540.0 (9.0)			
4.661 X 5.354 (118.4 X 136.0)			
311 hp			
Liquid			
Electronic			
24 volt			
16.0:1			
Medium duty dry type with blockage indicator			
1783.0 (50.5)			
1173 (634)			
30 (7.5)			
350.2 (9.9)			
21.7 (0.61)			
384.3 (10.88)			
12.1 (46.0)			
7.7 (19.0)			
9.0 (34.0)			
Water cooled			
15W 40			
less than 0.1% of fuel consumption			
38.0 (260.0)			
24 volt			
120 amps			
750 amps			

HIPOWER Sound Attenuated Enclosure:

HIPOWER Sound Attenuated Enclosure:	Model - G1R		
Noise level - dBA at 23 feet (7 meters)	75		
Dimensions - inches	132.3 X 49.2 X 85.9		
Dry weight – lbs.	7640		
Fuel System:			
Grade	# 2 Diesel - ULSD		
Tank capacity – US gallons (liters)	290.5 (1100)		
Approximate run time at 100% load	21.2		
Prime Rating Fuel consumption:			
100% load – US gallons/hour (liters)	13.7 (51.9)		
75% load - US gallons/hour (liters)	10.3 (39.1)		
50% load - US gallons/hour (liters)	7.2 (27.4)		
25% load - US gallons/hour (liters)	3.9 (14.8)		
Alternator Specification:			
Manufacturer	Stamford		
Model	UCI 274 H Winding 311		
Voltages	1-phase 120/240; 3-phase 120/208, 277/480		
Alternator Type	4-pole, rotating field		
Excitation System	Brushless with PMG & AVR MX 341		
Power factor	0.8		
Number of leads	12		
Stator Pitch	2/3		
Insulation	Class H		
Windings – Temperature Rise	120° C		
Enclosure (IEC-34-S)	IP 23		
Bearing	Single, sealed		
Coupling	Flexible disc		
Amortisseur windings	Full		
Voltage regulation – no load to full load with MX341 AVR	plus or minus 1%		
TIF	< 50		
Line harmonics	5% maximum		

Standard Accessories: (see back-page for control panel details)

Radiator with pusher fan	• Standard and secondary water separator with visible level on fuel filters			
Medium - duty, two-stage dry element	All rotating components (i.e. fan) protected with metal guards			
Heavy-duty engine start batteries in rack with cables	All hot components (i.e. exhaust) protected with metal guards			
Battery disconnect switch	Ground connection prepared for ground spike (not supplied)			
External emergency stop switch	Main line ABB UL listed circuit breaker for 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 NEMA 5-20 GFCI duplex receptacles; 3 x 50A 125/250V CS6369 twist-lock receptacles & Lexan covers; 50A California style twist lock (1Φ only); 2 sets 400A single pin Camlocks rated 400A with snap covers; color coded Camlocks 30 - 5W black, red, blue, white & green; pad lockable 1/4 turn door access with cable trap; auxiliary bus bars with mechanical lugs; 1 dual lug per phase; mechanical lugs up to 250MCM cable

Control panel DSE 3110 MANUAL & AUTO START MODULE

Optional Accessories:

Fuel tank leak detection sensor with alarm	Interior lights		
□ Alternator anti-condensation heaters	Shore power receptacle		
Winterization kit for low ambient temperature	Engine Block heater		
Electric actuator and louvers for air intake and exhaust	Control panel heater		
□ Snow hoods for air intake and exhaust	Three-way 'Quick' connect fuel valve to external fuel supply		
DOT certified towing trailer	Automatic fuel transfer pump		

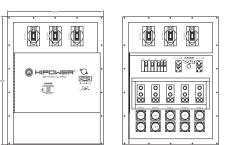
Generator Digital Control Panel - for manual, automatic and remote control

Model DSE 3110

The DSE model 3110 digital control panel: The DSE model 3110 digital control panel is back-lit with icon LCD text display, and is PC configurable. It works with the engine electronic governor with PLC functionality, protected front panel editing, and includes: manual, automatic and remote (input) start, PC configurable six inputs and four outputs, configurable timers and alarms, generator voltage and Hz display, battery voltage display, engine speed display, multiple engine parameters are monitored simultaneously, comprehensive shutdown or warning on fault condition, engine preheat, LED and LCD alarm indication, tamper-proof hour counter provides accurate information for monitoring and maintenance periods. The module monitors: engine speed, frequency, voltage and engine run hours and also displays the warning and shutdown status

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 800 AMP DISTRIBUTION PANEL





failure and emergency stop.

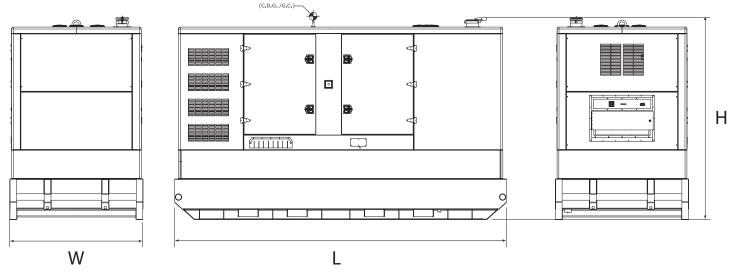
Alternator alarms included: Overload, unbalanced voltage, over voltage, under voltage, over frequency, under frequency, short circuit, reverse power, and incorrect phase sequence.

Instrumentation and gauges included: 3 ammeters, frequency meter, voltmeter plus selector, hour meter, fuel gauge, battery charger gauge, oil pressure gauge, water temperature gauge, siren and emergency stop button.

Pictures of Control Panel RH and Distribution Panel LH may include optional equipment and/or accessories

Model HRJW 250 T6

key dimensions, weight and sound level



Fuel Tank Data		Generator Data *				
Run Time Hours	Capacity (Gals)	L = Length	W = Width	H = Height	Weight lbs	dBA
28.2	438.2	161.4"	63.0"	102.4"	9,500	75

* All measurements are approximate and for estimation purposes only. Weights are with dry fuel tank. Sound level measured at 23ft (7m) and does not account for ambient site conditions.

Codes and Standards Compliances used where applicable



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