

Diesel Generator Set

mtu 6R0150 DS250



System ratings

Voltage (L-L)	208V [†]	240V [†]	380V [†]	480V [†]	600V [†]
Phase	3	3	3	3	3
PF	0.8	0.8	0.8	0.8	0.8
Hz	60	60	60	60	60
kW	230	230	230	230	230
kVA	288	288	288	288	288
Amps	798	692	437	346	277
skVA@30% voltage dip	608	608	430	809	720
Generator model	432CSL6210	432CSL6210	432CSL6210	432CSL6210	432PSL6246
Temp rise	105 °C/40 °C				
Connection	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	12 LEAD WYE	4 LEAD WYE

[†] UL 2200 offered

Certifications and standards

- $\ \, \mathsf{Emissions}$
 - EPA Tier 4 Final certified
 - South Coast Air Quality Management District (SCAQMD)
- Generator set is designed and manufactured in facilities certified to standards ISO 9001:2008 and ISO 14001:2004
- Seismic certification optional
 - 2021 IBC certification
 - HCAI pre-approval
- $-\,$ UL 2200 optional (refer to System ratings for availability)
- CSA optional
 - CSA C22.2 No. 100
 - CSA C22.2 No. 14

- Performance Assurance Certification (PAC)
 - Generator set tested to ISO 8528-5 for transient response
 - Verified product design, quality and performance integrity
 - All engine systems are prototype and factory tested
- Power rating
 - Accepts rated load in one step per NFPA 110
 - Permissible average power output during 24 hours of operation is approved up to 75%.



Renew able

Standard features*

- Single source supplier
- Global product support
- Two (2) Year/3,000 Hour Basic Limited Warranty
- 6090HFG06 diesel engine
 - 9.0 liter displacement
 - Common rail fuel injection
 - 4-cycle
- HVO and GtL fuels meeting fuel specification EN15940
- Engine-generator resilient mounted
- Complete range of accessories
- Cooling system
 - Integral set-mounted
 - Engine-driven fan

- Generator
 - Brushless, rotating field generator
 - 2/3 pitch windings
 - 300% short circuit capability with optional Permanent Magnet Generator (PMG)
- Digital control panel(s)
 - UL recognized, CSA certified, NFPA 110
 - Complete system metering
 - LCD display

Standard equipment*

Engine

- Air cleaner
- Oil pump
- Oil drain extension and shut-off valve
- Full flow oil filters
- Open crankcase ventilation
- Jacket water pump
- Thermostats
- Blower fan and fan drive
- Radiator unit mounted
- Electric starting motor 24V
- Governor electronic isochronous
- Base formed steel
- SAE flywheel and bell housing
- Charging alternator 24V
- Battery rack and cables
- Flexible fuel connectors
- Flexible exhaust connection
- EPA certified engine

Digital control panel(s)

- Digital metering
- Engine parameters
- Generator protection functions
- Engine protection
- CANBus ECU communications
- Windows®-based software
- Multilingual capability
- Communications to remote annunciator
- Programmable input and output contacts
- UL recognized, CSA certified, CE approved
- Event recording
- IP 54 front panel rating with integrated gasket
- NFPA 110 compatible

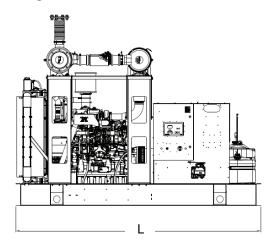
Generator

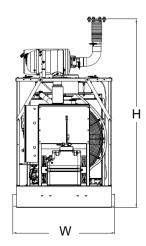
- NEMA MG1, IEEE, and ANSI standards compliance for temperature rise and motor starting
- Sustained short circuit current of up to 300% of the rated current for up to 10 seconds
- Self-ventilated and drip-proof
- Superior voltage waveform
- Digital, solid state, volts-per-hertz regulator
- Brushless alternator with brushless pilot exciter
- 4 pole, rotating field
- 105 °C maximum prime temperature rise
- 1-bearing, sealed
- Flexible coupling
- Full amortisseur windings
- 125% rotor balancing
- 3-phase voltage sensing
- $-\pm 1\%$ voltage regulation no load to full load
- 100% of rated load one step
- 5% maximum total harmonic distortion

Application data

Model John Deere Model 4 Ho0% of power rating: L/hr (gal/hr) 71.7 (18.9) Model 6090HF060 At 75% of power rating: L/hr (gal/hr) 52.9 (19.0) Type 4-eycle Arrangement 6-inline Displacement: L (in²) 9.0 (64.9) Bore: cm (in) 11.84 (4.7) At 100% of power rating: L/hr (gal/hr) 1.65 (0.4) Stroke: cm (in) 15.5 (5.4) At 75% of power rating: L/hr (gal/hr) 1.65 (0.4) Compression ratio 16:1 At 50% of power rating: L/hr (gal/hr) 1.65 (0.4) Rade drpm 1,800 At 50% of power rating: L/hr (gal/hr) 1.65 (0.4) Rade drpm 1,800 At 50% of power rating: L/hr (gal/hr) 1.65 (0.4) Maximum power: kWm (bhp) 298 (599) Ambient capacity of radiator: Ry (gal/hr) 1.07 (20.4) Air cleaner 40 (1.0 Ambient capacity of radiator: Ry a (in. H ₁ ,0) 0.124 (0.5) Liquid capacity 40 (10.6) Heat rejection to coolant: kW (BTUM) 36 (4.895) Englie governor 20 (2.0) Heat rejection to air to air: kW (BTUM) 36 (4.895) Liquid capacity 40 (10.6) Heat	Engine		Fuel consumption	
Type	Manufacturer	John Deere	At 100% of power rating: L/hr (gal/hr)	71.7 (18.9)
Arrangement 6-inline DEF consumption Displacement L. (in²) 9.0 (549) DEF consumption Bore: cm (in) 1.184 (4.7) At 100% of power rating: L/hr (gal/hr) 1.65 (0.44) Stroke: cm (in) 1.3.6 (5.4) At 75% of power rating: L/hr (gal/hr) 1.53 (0.41) Compression ratio 1.61 At 50% of power rating: L/hr (gal/hr) 1.17 (0.37) Rated rpm 1.800 At 50% of power rating: L/hr (gal/hr) 1.17 (0.37) Engine governor JDEC Cooling - radiator system Ambient capacity of radiator: °C (°F) 50 (122 Steady state frequency band ± 0.25% Maximum restriction of cooling air: intake Ambient capacity: L/min (gpm) 355 (102) Air cleaner dry Mater pump capacity: L/min (gpm) 355 (102) Liquid capacity 40 (10.6) Heat rejection to coolent k:W (BTUM) 185 (1025) Total oil system: L (gal) 17 (4.49) Heat rejection to coolent k:W (BTUM) 36.9 (2.099) System coolant capacity: L (gal) 17 (4.49) Heat rejection to coolent k:W (BTUM) 36.9 (2.099) System coolant capacity: L (gal) A35 (102) <t< td=""><td>Model</td><td>6090HFG06</td><td>At 75% of power rating: L/hr (gal/hr)</td><td>52.9 (14)</td></t<>	Model	6090HFG06	At 75% of power rating: L/hr (gal/hr)	52.9 (14)
Displacement: L (in¹) 9.0 (549) DEF consumption 1.65 (0.44)	Type	4-cycle	At 50% of power rating: L/hr (gal/hr)	36.4 (9.6)
Bore: cm (in)	Arrangement	6-inline		
Stroke: cm (in)	Displacement: L (in³)	9.0 (549)	DEF consumption	
Compression ratio 16:1 At 50% of power rating: L/hr (gal/hr) 1.17 (0.31)	Bore: cm (in)	11.84 (4.7)	At 100% of power rating: L/hr (gal/hr)	1.65 (0.44)
Rated rpm	Stroke: cm (in)	13.6 (5.4)	At 75% of power rating: L/hr (gal/hr)	1.53 (0.41)
Engine governor Maximum power: kWm (bhp) 298 (399) Maximum capacity of radiator: °C (°F) 50 (122) Steady state frequency band £ 0.25% Maximum restriction of cooling air: intake and discharge side of radiator: kPa (in. H₂0) Water pump capacity: L/min (gpm) Bate rejection to coolant: kW (BTUM) Total oil system: L (gal) Engine jacket water capacity: L (gal) System coolant capacity: L (gal) Electrical Electrical Electric volts DC Cold cranking amps under -17.8 °C (0 °F) Batteries: group size Batteries: group size Batteries: quantity Fuel system Fuel system Fuel system Maximum fuel Lift: m (ft) Recommended fuel Total fuel flow: L/hr (gal/hr) Total fuel flow: L/hr (gal/hr)	Compression ratio	16:1	At 50% of power rating: L/hr (gal/hr)	1.17 (0.31)
Maximum power: kWm (bhp) 298 (399) Ambient capacity of radiator: °C (°F) 50 (122) Steady state frequency band ± 0.25% Maximum restriction of cooling air: intake Air cleaner dry and discharge side of radiator: kPa (in. H₂O) 0.124 (0.5) Liquid capacity Heat rejection to coolant: kW (BTUM) 185 (10,550) Total oil system: L (gal) 40 (10.6) Heat rejection to air: kW (BTUM) 36.9 (2,099) System coolant capacity: L (gal) 17 (4.49) Heat radiated to ambient: kW (BTUM) 36.9 (2,099) System coolant capacity: L (gal) 41.37 (10.93) Fan power: kW (hp) 18 (24.1) Electrical Air requirements Aspirating: *m³/min (SCFM) 23 (812) Cold cranking amps under -17.8 °C (0 °F) 950 Air flow required for radiator 517.7 (18,281) Batteries: group size 31 cooled unit: *m³/min (SCFM) 517.7 (18,281) Batteries: quantity 2 Remote cooled applications; air flow required for dissipation of radiated generator set heat for a maximum of 25 °F rise: *m³/min (SCFM) N/A Fuel system -10 JIC 37° female Fuel return Connection size *Air density = 1.184 kg/m³ (0.0739 lbm/ft³) *Air den	Rated rpm	1,800		
Steady state frequency band Air cleaner Air cleaner Air cleaner Air requirements Electrical Electrical Electrica	Engine governor	JDEC	Cooling - radiator system	
Air cleaner dry Water pump capacity: L/min (gpm) 385 (102) Heat rejection to coolant: kW (BTUM) 185 (10,530) Heat rejection to air: kW (BTUM) 36.9 (2,099) System coolant capacity: L (gal) 17 (4.49) Heat rediction to air to air: kW (BTUM) 36.9 (2,099) System coolant capacity: L (gal) 36.9 (2,099) System coolant capacity: L (gal) 41.37 (10.93) Fan power: kW (hp) Electrical Electric volts DC 24 Coold cranking amps under -17.8 °C (0 °F) Batteries: group size Batteries: quantity Fuel system Fuel system Fuel supply connection size Fuel return Connection size Maximum fuel Lift: m (ft) Recommended fuel Total fuel flow: L/hr (gal/hr) Total fuel flow: L/hr (gal/hr) Air geuirements Air requirements Air requirements Aspirating: *m³/min (SCFM) 517.7 (18,281) 8 (3 (3 (3 (3 (3 (3 (3 (3 (3 (3 (3 (3 (3	Maximum power: kWm (bhp)	298 (399)	Ambient capacity of radiator: °C (°F)	50 (122)
Liquid capacity Liquid capacity Total oil system: L (gal) Engine jacket water capacity: L (gal) System coolant capacity: L (gal) System coolant capacity: L (gal) Electrical Electrica Electrica Electrica Electrics volts DC Cold cranking amps under -17.8 °C (0 °F) Batteries: group size Batteries: quantity Fuel system Fuel system Fuel supply connection size Fuel return Connection size Maximum fuel Lift: m (ft) Recommended fuel Total fuel flow: L/hr (gal/hr) Face of Maximum fuel Lift: m (ft) Cotal fuel flow: L/hr (gal/hr) Figh (385 (10.530) Heat rejection to coolant: kW (BTUM) Heat radiated to ambient: kW (BTUM) 86 (4,895) Fan power: kW (hp) 87 (10.93) Fan power: kW (hp) 88 (4,895) Fan power: kW (hp) 89 (36 (4,895) Fan power: kW (hp) 80 (4,895) Fan power: kW (hp) 80 (4,895) Fan power: kW (BTUM) 80 (4,895) Fan power: kW (bp) 81 (24.17) 82 (812) Fan power: kW (hp) 82 (812) Fan power: kW (hp) 83 (4,895) Fan power: kW (bp) 84 (24.17) Fan power: kW (bp) 85 (7 Fm) Fan power: kW (bp) 86 (4,895) Fan power: kW (bp) 86 (4,895) Fan power: kW (bp) 87 (Fibur park) Fan power: kW (bp) 88 (4,895) Fan power: kW (bp) 86 (4,895) Fan power: kW (bp) 87 (Fibur park) Fan power: kW (bp) Fan power: kW	Steady state frequency band	± 0.25%	Maximum restriction of cooling air: intake	
Liquid capacityHeat rejection to coolant: kW (BTUM)185 (10,530)Total oil system: L (gal)40 (10.6)Heat rejection to air: kW (BTUM)86 (4,895)Engine jacket water capacity: L (gal)17 (4.49)Heat radiated to ambient: kW (BTUM)36.9 (2,099)System coolant capacity: L (gal)41.37 (10.93)Fan power: kW (hp)18 (24.1)ElectricalAir requirementsElectric volts DC24Aspirating: *m³/min (SCFM)23 (812)Cold cranking amps under -17.8 °C (0 °F)950Air flow required for radiator517.7 (18,281)Batteries: group size31cooled unit: *m³/min (SCFM)517.7 (18,281)Batteries: quantity2Remote cooled applications; air flow required for dissipation of radiated generator set heat for a maximum of 25 °F rise: *m³/min (SCFM)N/AFuel system-10 JIC 37° female Fuel return Connection size-6 JIC 37° female Maximum fuel Lift: m (ft)*Air density = 1.184 kg/m³ (0.0739 lbm/ft³)Maximum fuel Lift: m (ft)2.4 (7.9)Exhaust systemTotal fuel flow: L/hr (gal/hr)167.94 (44.37)Gas temperature (stack): °C (°F)447 (837)Maximum gas temperature during regeneration: °C (°F)647 (1,197)Gas volume at stack temperature: m³/min (CFM)45 (1,589)Maximum allowable back pressure at	Air cleaner	dry	and discharge side of radiator: kPa (in. H ₂ 0)	0.124 (0.5)
Total oil system: L (gal) 40 (10.6) Heat rejection to air to air: kW (BTUM) 86 (4,895) Engine jacket water capacity: L (gal) 17 (4.49) Heat radiated to ambient: kW (BTUM) 36.9 (2,099) System coolant capacity: L (gal) 41.37 (10.93) Fan power: kW (hp) 18 (24.1) Electrical Air requirements Electric volts DC 24 Aspirating: *m³/min (SCFM) 23 (812) Coold cranking amps under -17.8 °C (0 °F) 950 Air flow required for radiator Batteries: group size 311 cooled unit: *m³/min (SCFM) 517.7 (18,281) Batteries: quantity 2 Remote cooled applications; air flow required for dissipation of radiated generator set heat for a maximum of 25 °F rise: *m³/min (SCFM) N/A Fuel supply connection size -6 JIC 37° female Fuel return Connection size -6 JIC 37° female Maximum fuel Lift: m (ft) 2.4 (7.9) Recommended fuel diesel #2/HVO Total fuel flow: L/hr (gal/hr) 167.94 (44.37) Maximum gas temperature during regeneration: °C (°F) 647 (1,197) Gas volume at stack temperature: m³/min (CFM) 45 (1,589) Maximum allowable back pressure at			Water pump capacity: L/min (gpm)	385 (102)
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Electrical Electric volts DC Cold cranking amps under -17.8 °C (0 °F) Batteries: group size Batteries: quantity Fuel system Fuel supply connection size Maximum fuel Lift: m (ft) Recommended fuel Total fuel flow: L/hr (gal/hr) Air requirements Air requirements Aspirating: *m³/min (SCFM) As	Total oil system: L (gal)	40 (10.6)	Heat rejection to air to air: kW (BTUM)	86 (4,895)
Electrical Electric volts DC Cold cranking amps under -17.8 °C (0 °F) Batteries: group size Batteries: quantity Fuel system Fuel supply connection size Maximum fuel Lift: m (ft) Recommended fuel Total fuel flow: L/hr (gal/hr) Aspirating: *m³/min (SCFM) Aspirating: *m³/min (SCFM) Aspirating: *m³/min (SCFM) Aspirating: *m³/min (SCFM) Air flow required for radiator cooled unit: *m³/min (SCFM) Air flow required for radiator cooled applications; air flow required for dissipation of radiated generator set heat for a maximum of 25 °F rise: *m³/min (SCFM) *Air density = 1.184 kg/m³ (0.0739 lbm/ft²)	Engine jacket water capacity: L (gal)	17 (4.49)	Heat radiated to ambient: kW (BTUM)	36.9 (2,099)
Electric volts DC 24 Aspirating: *m³/min (SCFM) 23 (812) Cold cranking amps under -17.8 °C (0 °F) 950 Air flow required for radiator Batteries: group size 31 cooled unit: *m³/min (SCFM) 517.7 (18,281) Batteries: quantity 2 Remote cooled applications; air flow required for dissipation of radiated generator set heat for a maximum of 25 °F rise: *m³/min (SCFM) N/A Fuel supply connection size -10 JIC 37° female Fuel return Connection size -6 JIC 37° female Maximum fuel Lift: m (ft) 2.4 (7.9) Recommended fuel diesel #2/HVO Total fuel flow: L/hr (gal/hr) 167.94 (44.37) Gas temperature (stack): °C (°F) 447 (837) Maximum gas temperature during regeneration: °C (°F) 647 (1,197) Gas volume at stack temperature: m³/min (CFM) 45 (1,589) Maximum allowable back pressure at	System coolant capacity: L (gal)	41.37 (10.93)	Fan power: kW (hp)	18 (24.1)
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Maximum fuel Lift: m (ft) Recommended fuel Total fuel flow: L/hr (gal/hr) Adjusted the second fuel diesel #2/HVO 167.94 (44.37) Total fuel flow: L/hr (gal/hr) Additional fuel flow: L/hr (gal/hr) 167.94 (44.37) Additional fuel flow: C (°F) Additional flow: C (°F)	Fuel supply connection size	-10 JIC 37° female		
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Total fuel flow: L/hr (gal/hr) 167.94 (44.37) Gas temperature (stack): °C (°F) Maximum gas temperature during regeneration: °C (°F) Gas volume at stack temperature: m³/min (CFM) Maximum allowable back pressure at 447 (837) 647 (1,197) 45 (1,589)	Maximum fuel Lift: m (ft)	2.4 (7.9)		
Maximum gas temperature during regeneration: °C (°F) 647 (1,197) Gas volume at stack temperature: m³/min (CFM) 45 (1,589) Maximum allowable back pressure at	Recommended fuel	diesel #2/HVO	Exhaust system	
Gas volume at stack temperature: m³/min (CFM) 45 (1,589) Maximum allowable back pressure at	Total fuel flow: L/hr (gal/hr)	167.94 (44.37)	·	447 (837)
Maximum allowable back pressure at				
				45 (1,589)
outlet of aftertreatment: kPa (in. H ₂ 0) 19.2 (77)				
			outlet of aftertreatment: kPa (in. H ₂ 0)	19.2 (77)

Weights and dimensions





Drawing above for illustration purposes only, based on standard open power 480 volt generator set. Lengths may vary with other voltages. Do not use for installation design. See website for unit specific template drawings.

System	Dimensions (LxWxH)	Weight
Open Power Unit (OPU)	3,658 x 1,524 x 2,516 mm (144 x 60 x 111 in)	4,140 (9,137 lb)

Weights and dimensions are based on open power units and are estimates only. Consult the factory for accurate weights and dimensions for your specific generator set.

Sound data

Unit type	Prime full load
Level 0 (OPU): dB(A)	83.6

Sound data is provided at 7 m (23 ft). Generator set tested in accordance with ISO 8528-10 and with infinite exhaust.

Emissions data

NO _x + NMHC	СО	РМ
0.03	0.002	0.003

All units are in g/hp-hr and shown at 100% load (not comparable to EPA weighted cycle values). Emission levels of the engine may vary with ambient temperature, barometric pressure, humidity, fuel type and quality, installation parameters, measuring instrumentation, etc. The data was obtained in compliance with US EPA regulations. The weighted cycle value (not shown) from each engine is guaranteed to be within the US EPA standards.

Rating definitions and conditions

- Prime power ratings apply to installations where utility power is unavailable or unreliable. At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO 8528-1, ISO 3046-1, BS 5514, and AS 2789. Average load factor: ≤ 75%.
- Nominal ratings at standard conditions: 25 °C and 300 meters (77 °F and 1,000 feet).
- Deration factor:
 - Consult your local *mtu* Distributor for altitude derations.
 - Consult your local *mtu* Distributor for temperature derations.

C/F = Consult Factory/*mtu* Distributor N/A = Not Available