

Diesel Generator Set





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	265	265	265	265	265
kVA	331	331	331	331	331
Amps	919	797	503	398	319
skVA@30% voltage dip	930	930	767	1,238	1,102
Generator model	433CSL6216	433CSL6216	433CSL6216	433CSL6216	432PSL6248
Temp rise	105 °C/40 °C	105 °C/40 °C	105 °C/40 °C	105 °C/40 °C	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

- 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
- 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 connectorsFlexible exhaust connection
- EPA certified engine

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 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

Digital control panel(s)

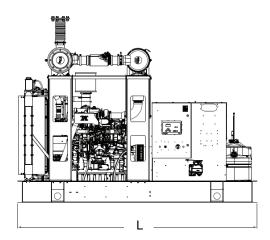
- Digital metering
- Engine parameters
- Generator protection functions
- Engine protection
- CANBus ECU communications
- Windows®-based software
- Multilingual capability
- Communications to remote annunciator
- Programmable input and output contacts
- UL recognized, CSA certified, CE approved
- Event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

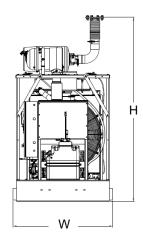
^{*} Represents standard product only. Consult the factory/mtu Distributor for additional configurations.

Application data

Model John Deere Model 4 100% of power rating: L/hr (gal/hr) 71.7 (8.9) Model 6090HF606 At 75% of power rating: L/hr (gal/hr) 52.9 (1) Type 4-cycle At 50% of power rating: L/hr (gal/hr) 35.6 (9.0) Arrangement 6-inline Displacement: L (in²) 9.0 (54.9) Bore: cm (in) 11.84 (4.7) At 100% of power rating: L/hr (gal/hr) 1.65 (0.4) Stroke: cm (in) 15.6 (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) Reted rpm 1,800 To 50% of power rating: L/hr (gal/hr) 1.65 (0.4) Rated rpm 1,800 To 50% of power rating: L/hr (gal/hr) 1.65 (0.4) Rated rpm 1,800 To 50% of power rating: L/hr (gal/hr) 1.65 (0.4) Rated rpm 1,800 To 50% of power rating: L/hr (gal/hr) 1.65 (0.4) Rated rpm 1,800 To 50% of power rating: L/hr (gal/hr) 1.65 (0.4) Rated rpm 1,800 To 50% of power rating: L/hr (gal/hr) 1.65 (0.4) At 50 (200) <	Engine		Fuel consumption	
Type 4-cycle At 50% of power rating: L/hr (gal/hr) 36.4 (9.6) Arrangement 6-inline 1 Displacement: L (in²) 9.0 (549) DEF consumption Bore: cm (in) 11.84 (4.7) At 100% of power rating: L/hr (gal/hr) 1.65 (0.44) Stroke: cm (in) 13.6 (5.4) At 75% of power rating: L/hr (gal/hr) 1.53 (0.41) Compression ratio 161 At 50% of power rating: L/hr (gal/hr) 1.53 (0.41) Rated rpm 1,800 Cooling - radiator system 1.70 (0.51) Engine governor JDEC Cooling - radiator system 50 (122) Maximum power: kWm (bhp) 298 (399) Ambient capacity of radiator: °C (°F) 50 (122 (0.52) Steady state frequency band ± 0.25% Maximum restriction of cooling air: Intake 4 and discharge side of radiator: kPa (in. H₂0) 0.124 (0.5) Air cleaner dry Heat rejection to cooling air: Intake 4 and discharge side of radiator: kPa (in. H₂0) 3.85 (102) Liquid capacity 1 (31) 4 (10.6) Heat rejection to coolant: kW (BTUM) 36 (4.895) Engine jacket water capacity: L (gal) 4 (10.6)	Manufacturer	John Deere	At 100% of power rating: L/hr (gal/hr)	71.7 (18.9)
Arrangement Sending Sending Service	Model	6090HFG06	At 75% of power rating: L/hr (gal/hr)	52.9 (14)
Displacement: L (in³) 9.0 (549) DEF consumption 1.64 (4.7) At 100% of power rating: L/hr (gal/hr) 1.65 (0.44) Compression ratio 1.61 At 50% of power rating: L/hr (gal/hr) 1.53 (0.41) Compression ratio 1.61 At 50% of power rating: L/hr (gal/hr) 1.53 (0.41) Compression ratio 1.61 At 50% of power rating: L/hr (gal/hr) 1.53 (0.41) Compression ratio 1.61 At 50% of power rating: L/hr (gal/hr) 1.53 (0.41) Compression ratio 1.61 At 50% of power rating: L/hr (gal/hr) 1.53 (0.41) Compression ratio 1.61 At 50% of power rating: L/hr (gal/hr) 1.53 (0.41) Compression ratio 1.61 At 50% of power rating: L/hr (gal/hr) 1.53 (0.41) Compression ratio 1.61 At 50% of power rating: L/hr (gal/hr) 1.53 (0.41) Compression ratio 1.61 At 50% of power rating: L/hr (gal/hr) 1.53 (0.41) Compression ratio 1.61 At 50% of power rating: L/hr (gal/hr) 1.53 (0.41) Compression ratio 1.61 At 50% of power rating: L/hr (gal/hr) 1.53 (0.41) Compression ratio 1.61 At 50% of power rating: L/hr (gal/hr) 1.53 (0.41) Compression ratio 1.61 At 50% of power rating: L/hr (gal/hr) 1.53 (0.41) Compression ratio 1.61 At 50% of power rating: L/hr (gal/hr) 1.53 (0.41) Compression ratio 1.61 At 50% of power rating: L/hr (gal/hr) 1.53 (0.41) Coling radiator system Ambient capacity of radiator system Ambient capacity of radiator system 1.61 Ambient capacity L (gal) 1.61 Ambient capacity: L/min (gan/hr) 1.65 (0.45) Ambient capacity: L/min (g	Туре	4-cycle	At 50% of power rating: L/hr (gal/hr)	36.4 (9.6)
Bore: cm (in) 11.84 (4.7) At 100% of power rating: L/hr (gal/hr) 1.65 (0.44) Stroke: cm (in) 13.6 (5.4) At 75% of power rating: L/hr (gal/hr) 1.53 (0.41) Compression ratio 16.1 At 50% of power rating: L/hr (gal/hr) 1.53 (0.41) Rated rpm 1,800 Cooling- radiator system 1.17 (0.31) Engine governor JDEC Cooling- radiator system 50 (122) 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 41 releaner 40 reduction of adiator: kPa (in. H₂0) 0.124 (0.5) Air cleaner dry Heat rejection to coolant: kW (BTUM) 355 (102) 185 (10.53) Liquid capacity L (gal) 40 (10.6) Heat rejection to air: kW (BTUM) 36.9 (2.099) Total oil system: L (gal) 40 (10.6) Heat rejection to air: kW (BTUM) 36.9 (2.099) System coolant capacity: L (gal) 41.37 (10.93) Fan power: kW (p) 23 (812) Electrical 24 Aspirating: "m³/min (SCFM) 23 (812)	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 (0.37)	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 JDEC Cooling - radiator system 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. H₂0) 0.124 (0.5) Liquid capacity 40 (10.6) Heat rejection to coolant: kW (BTUM) 185 (10.530) Total oil system: L (gal) 40 (10.6) Heat rejection to air to air: kW (BTUM) 36 (2.099) System coolant capacity: L (gal) 41.37 (10.93) Fan power: kW (hp) 36 (2.099) System coolant capacity: L (gal) 41.37 (10.93) Fan power: kW (bp) 23 (812) Electrical Air requirements 24 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 syst	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. H₂0) 0.124 (0.5) Liquid capacity Heat rejection to coolant: kW (BTUM) 185 (10,530) 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) 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 517.7 (18,281) Batteries: group size 31 cooled unit: *m³/min (SCFM) 517.7 (18,281) Fuel system -10 JIC 37° female *air density = 1.184 kg/m³ (0.0739 lbm/ft*) *air density = 1.184 kg/m³ (0.0739 lbm/ft*) Fuel supply connection size -6 JIC 37° female<	Rated rpm	1,800		
Steady state frequency band \$ ± 0.25% Maximum restriction of cooling air: Intake and discharge side of radiator: kPa (in. H₂0) 0.124 (0.5) Water pump capacity: L/min (gpm) 385 (102) System: L (gal) 40 (10.6) Heat rejection to coolant: kW (BTUM) 86 (4.895) Engine jacket water capacity: L (gal) 41.37 (10.93) Fan power: kW (hp) 86 (4.895) Fan power: kW (hp)	Engine governor	JDEC	Cooling - radiator system	
Air cleaner dry Water pump capacity: L/min (gpm) 385 (102) Heat rejection to coclant: kW (BTUM) 185 (10,530) Heat rejection to air: kW (BTUM) 369 (2,099) System coclant capacity: L (gal) 17 (4,49) Heat radiated to ambient: kW (BTUM) 369 (2,099) System coolant capacity: L (gal) 41.37 (10.93) Fan power: kW (hp) Electrical Electric volts DC Cold cranking amps under -17.8 °C (0 °F) Batteries: group size Batteries: quantity Fuel system Fuel system Heat rejection to air to air: kW (BTUM) 36.9 (2,099) Air requirements Fuel system Fuel system Fuel supply connection size Maximum fuel Lift: m (ft) Cold Connection size Air requirements Fuel system Fuel system Fuel system Fuel system Gas remained fuel Total fuel flow: L/hr (gal/hr) Total fuel flow: L/hr (gal/hr) Air Gos volume at stack temperature: m³/min (CFM) Avaimum gas temperature during regeneration: °C (°F) A47 (837) Gas volume at stack temperature: m³/min (CFM) Awaimum allowable back pressure at	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) Electrical Electrical Electric volts DC Cold cranking amps under -17.8 °C (0 °F) Batteries: group size Batteries: quantity Equal supply connection size Fuel system Fuel supply connection size Fuel return Connection size Maximum fuel Lift: m (ft) Aximum fuel Lift: m (ft) Cold glar) Face ommended fuel Total fuel flow: L/hr (gal/hr) Water pump capacity: L (min (gpm) Heat rejection to coolant: kW (BTUM) Heat radiated to ambient: kW (BTUM) 86 (4,895) Heat rejection to air: kW (BTUM) 86 (4,895) Heat rejection to air: kW (BTUM) 86 (4,895) Fan power: kW (hp) 86 (4,895) Fan power: kW (hp) 87 (10,93) Fan power: kW (hp) 88 (4,895) Fan power: kW (hp) 89 (2,099) Air requirements Aspirating: *m³/min (SCFM) 90 (Air requirements 91 (10 (10 (10 (10 (10 (10 (10 (10 (10 (1	Steady state frequency band	± 0.25%	Maximum restriction of cooling air: Intake	
Liquid capacity Total oil system: L (gal) System coolant capacity: L (gal) System coolant capacity: L (gal) Total oil system: L (gal) Total capacity: L (gal) Total oil system: A virule oil sir: kW (BTUM) Total oil: kW (BTUM) Total oil: sir: kW (kp) Total oil sir: kW (kp) Total	Air cleaner	dry	and discharge side of radiator: kPa (in. H ₂ 0)	0.124 (0.5)
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: quantity Fuel system Fuel supply connection size Maximum fuel Lift: m (ft) Recommended fuel Maximum fuel Lift: m (ft) Total fuel flow: L/hr (gal/hr) A0 (10.6) Heat rejection to air to air: kW (BTUM) Heat radiated to ambient: kW (BTUM) Heat radiated to ambient: kW (BTUM) A6 (4,895) Heat rejection to air to air: kW (BTUM) A6 (4,895) Heat rejection to air to air: kW (BTUM) A6 (4,895) Heat rejection to air to air: kW (BTUM) A6 (4,895) Heat rejection to air to air: kW (BTUM) A6 (4,895) Heat radiated to ambient: kW (BTUM) A6 (4,895) A6 (4,89			Water pump capacity: L/min (gpm)	385 (102)
Electrical Electrical Electrical Electrical Cold cranking amps under -17.8 °C (0 °F) Batteries: group size Batteries: quantity Fuel system Fuel supply connection size Fuel return Connection size Maximum fuel Lift: m (ft) Recommended fuel Total fuel flow: L/hr (gal/hr) Farguire d to ambient: kW (BTUM) Air requirements Air requirements Aspirating: *m³/min (SCFM) Air flow required for radiator cooled unit: *m³/min (SCFM) 517.7 (18,281) Air flow required for radiator cooled unit: *m³/min (SCFM) 517.7 (18,281) Air flow required for radiator cooled unit: *m³/min (SCFM) 517.7 (18,281) Air flow required for radiator cooled unit: *m³/min (SCFM) Fuel system Fuel system Fuel system Fuel supply connection size Fuel return Connection size Maximum fuel Lift: m (ft) Cay (7.9) Recommended fuel Total fuel flow: L/hr (gal/hr) Far power: kW (hp) Air requirements Aspirating: *m³/min (SCFM) Far power: kW (hp) Aspirating: *m³/min (SCFM) S17.7 (18,281) Air flow required for radiator cooled unit: *m³/min (SCFM) Far maximum of 25 °F rise: *m³/min (SCFM) N/A Fuel supply connection size *Air density = 1.184 kg/m³ (0.0739 lbm/ft³) Exhaust system Gas temperature (stack): °C (°F) Maximum gas temperature during regeneration: °C (°F) Maximum gas temperature: m³/min (CFM) Maximum allowable back pressure at	Liquid capacity		Heat rejection to coolant: kW (BTUM)	185 (10,530)
Electrical Electric volts DC Cold cranking amps under -17.8 °C (0 °F) Batteries: group size Batteries: quantity Fuel system Fuel supply connection size Fuel return Connection size Maximum fuel Lift: m (ft) Recommended fuel Total fuel flow: L/hr (gal/hr) Air requirements Air requirements Aspirating: *m³/min (SCFM) Aspirating: *m³/min (SCFM) Air flow required for radiator Cooled unit: *m³/min (SCFM) Air flow required for radiator Cooled unit: *m³/min (SCFM) Air flow required for radiator Cooled unit: *m³/min (SCFM) Air flow required for radiator Air density = 1.184 kg/m³ (0.0739 lbm/ft³) Exhaust system Total fuel flow: L/hr (gal/hr) Fan power: kW (hp) Air requirements Air requirements Air requirements Air requirements Air density = 1.184 kg/m³ (0.0739 lbm/ft³) Exhaust system Gas temperature (stack): °C (°F) Maximum gas temperature during regeneration: °C (°F) Aday (44.37) Aday (44.37) Aday (44.37) Aday (44.37) Aday (44.37) Aday (44.37) Air density = 1.184 kg/m³ (0.0739 lbm/ft³)	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) Air requirements 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/ft³) *Air density = 1.184 kg/m³ (0.0739 lbm/ft³) *Exhaust system Gas temperature (stack): °C (°F) Maximum gas temperature during regeneration: °C (°F) Maximum gas temperature during regeneration: °C (°F) Gas volume at stack temperature: m³/min (CFM) Maximum allowable back pressure at	Engine jacket water capacity: L (gal)	17 (4.49)	Heat radiated to ambient: kW (BTUM)	36.9 (2,099)
Electric volts DC Cold cranking amps under -17.8 °C (0 °F) Batteries: group size Batteries: quantity Fuel system Fuel supply connection size Fuel return Connection size Maximum fuel Lift: m (ft) Recommended fuel Total fuel flow: L/hr (gal/hr) Aspirating: *m³/min (SCFM) Air flow required for radiator cooled unit: *m³/min (SCFM) Find required for radiated generator set heat for a maximum of 25 °F rise: *m³/min (SCFM) *Air density = 1.184 kg/m³ (0.0739 lbm/ft³) *Air density = 1.184 kg/m³ (0.0739 lbm/ft³) *Exhaust system Gas temperature (stack): °C (°F) Maximum gas temperature: m³/min (CFM) Maximum gas temperature: m³/min (CFM) Maximum gas temperature: m³/min (CFM) Maximum allowable back pressure at	System coolant capacity: L (gal)	41.37 (10.93)	Fan power: kW (hp)	18 (24.1)
Cold cranking amps under -17.8 °C (0 °F) Batteries: group size 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) Fuel system Fuel supply connection size Fuel return Connection size Maximum fuel Lift: m (ft) Recommended fuel Total fuel flow: L/hr (gal/hr) Air flow required for radiator cooled unit: *m³/min (SCFM) Find the supply cooled applications; air flow required for dissipation of radiated generator set heat for a maximum of 25 °F rise: *m³/min (SCFM) N/A *Air density = 1.184 kg/m³ (0.0739 lbm/ft³) Exhaust system Gas temperature (stack): °C (°F) Maximum gas temperature during regeneration: °C (°F) Maximum gas temperature: m³/min (CFM) Maximum allowable back pressure at	Electrical		Air requirements	
Batteries: group size 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) Fuel system Fuel supply connection size Fuel return Connection size Maximum fuel Lift: m (ft) Recommended fuel Total fuel flow: L/hr (gal/hr) Find fuel flow: L/hr (gal/hr) Find fuel flow: L/hr (gal/hr) Find fuel supply connection size Find fuel flow: L/hr (gal/hr) Find fuel fl	Electric volts DC	24	Aspirating: *m³/min (SCFM)	23 (812)
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) 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) Air density = 1.184 kg/m³ (0.0739 lbm/ft³) Exhaust system Gas temperature (stack): °C (°F) Maximum gas temperature during regeneration: °C (°F) Maximum gas temperature: m³/min (CFM) Maximum allowable back pressure at	Cold cranking amps under -17.8 °C (0 °F)	950	Air flow required for radiator	
Fuel system Fuel supply connection size Fuel return Connection size Maximum fuel Lift: m (ft) Recommended fuel Total fuel flow: L/hr (gal/hr) Fuel supply connection size -6 JIC 37° female -6 JIC 37° female diesel #2/HVO Total fuel flow: L/hr (gal/hr) -6 JIC 37° female diesel #2/HVO Gas temperature (stack): °C (°F) Maximum gas temperature: m³/min (CFM) Maximum gas temperature: m³/min (CFM) Maximum allowable back pressure at	Batteries: group size	31	cooled unit: *m³/min (SCFM)	517.7 (18,281)
Fuel system Fuel supply connection size Fuel return Connection size Maximum fuel Lift: m (ft) Recommended fuel Total flow: L/hr (gal/hr) Fuel supply connection size -6 JIC 37° female -6 JIC 37° female -2.4 (7.9) Recommended fuel diesel #2/HVO 167.94 (44.37) Fast temperature (stack): °C (°F) Maximum gas temperature during regeneration: °C (°F) Maximum gas temperature: m³/min (CFM) Maximum allowable back pressure at	Batteries: quantity	2	Remote cooled applications; air flow required for	
Fuel supply connection size Fuel return Connection size Maximum fuel Lift: m (ft) Recommended fuel Total fuel flow: L/hr (gal/hr) A fair density = 1.184 kg/m³ (0.0739 lbm/ft³) Exhaust system 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			dissipation of radiated generator set heat for a	
Fuel return Connection size Maximum fuel Lift: m (ft) Recommended fuel Total fuel flow: L/hr (gal/hr) Maximum gas temperature during regeneration: °C (°F) Maximum gas temperature: m³/min (CFM) Maximum allowable back pressure at * Air density = 1.184 kg/m³ (0.0739 lbm/ft³) * Exhaust system Gas temperature (stack): °C (°F) Maximum gas temperature: m³/min (CFM) Maximum allowable back pressure at	Fuel system		maximum of 25 °F rise: *m³/min (SCFM)	N/A
Maximum fuel Lift: m (ft) Recommended fuel Total fuel flow: L/hr (gal/hr) 167.94 (44.37) Maximum gas temperature (stack): °C (°F) Maximum gas temperature: m³/min (CFM) Maximum allowable back pressure at 447 (837) 647 (1,197) 648 (1,589)	Fuel supply connection size	-10 JIC 37° female		
Recommended fuel Total fuel flow: L/hr (gal/hr) 167.94 (44.37) Gas temperature (stack): °C (°F) Maximum gas temperature: m³/min (CFM) Maximum allowable back pressure at 447 (837) 647 (1,197) Maximum allowable back pressure at	Fuel return Connection size	-6 JIC 37° female	* Air density = 1.184 kg/m³ (0.0739 lbm/ft³)	
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)	Gas temperature (stack): °C (°F)	447 (837)
Maximum allowable back pressure at			Maximum gas temperature during regeneration: °C (°F)	647 (1,197)
·			Gas volume at stack temperature: m³/min (CFM)	45 (1,589)
outlet of aftertreatment: kPa (in. H ₂ 0) 19.2 (77)			Maximum allowable back pressure at	
			outlet of aftertreatment: kPa (in H O)	10.2 (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 kg (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)	83.3

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	PM
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 \emph{mtu} Distributor for temperature derations.

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