



WQ100T4 Diesel Generator Set 100kW

Open Skid Model



STANDARD FEATURES:

- Isuzu Liquid Cooled Engine
- Stamford Generator with Automatic Voltage Regulator—CSA approved
- Heavy duty steel skid base with anti-vibration isolators
- Digital generator controller with user friendly color display and auto start/stop
- Electronic governing— excellent frequency and load pick-up
- Extended run DEF tank
- Safety shutdown protection
- Operator Manuals
- **Serviced and 100% Load Tested**

Simple T4F after treatment uses Selective Catalytic Reduction exhaust aftertreatment to meet emissions standards. No need for diesel particulate filter (DPF)



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EDMONTON 780.960.5560 CALGARY 403.261.0601 VANCOUVER 778.705.0743



ELECTRICAL SPECIFICATIONS:

Voltage	Frequency	P.F.	Amps (Prime/Standby)	Prime Output (kW/kVA)	Standby Output (kW/kVA)
120/240 - 1PH	60Hz	1.0	417/458	100/100	110/110
120/208 - 3PH	60Hz	0.8	347/383	100/125	110/138
277/480 - 3PH	60Hz	0.8	150/166	100/125	110/138
347/600 - 3PH	60Hz	0.8	120/133	100/125	110/138

ENGINE SPECIFICATIONS:

- Isuzu Model: 4HK1X Liquid Cooled Diesel
- 174HP/129kW @ 1800 RPM
- 12V electrics
- Electric and self priming fuel lift pump
- Wastegate Turbo and Charge Air Cooler
- SCR, DOC and EGR
- Fan type– Pusher
- **500 hour oil change interval**
- Single side service for filters
- EPA Tier 4 Final
- In-line 4 cylinder, 4 Stroke
- Displacement: 5.2L
- Glow plugs cold starting aid
- +/- 0.25% Electronic engine control
- High pressure common rail and direct injection
- Fan, belt, and radiator core guards
- Crankcase vent heater kit to prevent freeze-up
- Crankcase pressure safety switch

GENERATOR SPECIFICATIONS:

- Stamford Generator; UCI Series
- Single Bearing, Brushless
- Automatic Voltage Regulator (AVR Controlled)
- +/- 1% Voltage Regulation
- Winding– single or three phase
- IP23 Enclosure Protection
- Class H Insulation
- 1 Year Warranty
- UL/CSA Approved



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GENERATOR CONTROL PANEL

Key Features:

- Digital genset controller
- Full LCD display
- Manual and Auto Start/Stop function
- User friendly front panel buttons

Full display of:

- Oil Pressure
- Engine Temperature
- Fuel and DEF Level
- AC Voltage
- Diagnostic Trouble Codes
- Engine Hours
- RPM
- Battery Voltage
- Hz Frequency

Safety Shutdowns and Warnings:

- Low Oil Pressure
- Under/Over AC Voltage
- Under/Over Battery Voltage
- Low DEF Level (Warning)
- High Coolant Temperature
- Engine Under/Over Speed (Hz/RPM)
- Low Fuel Level (Warning)

Optional Features:

- Remote Telematics Monitoring System
- 3-Phase AC Current (Amperage) Display





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FUEL & DEF SYSTEM:

- Diesel Fuel with SCR / DEF System
- DEF Tank Capacity: 28L
- Lockable DEF fill cap
- DEF Level Gauge is displayed on control panel
- Heated DEF tank and piping
- Optional Sub-Base Fuel Tank Available (400L)

FUEL CONSUMPTION:

- 100% Load—26.9L/hr / 7.1 (US) gph
- 75% Load— 20.7L/hr / 5.5 (US) gph
- 50% Load— 14.7L/hr / 3.9 (US) gph

DEF CONSUMPTION:

- Approximately 3% of fuel consumption
- Minimum DEF Runtime: 35hr @ 100% Load

DIMENSIONS OPEN SKID: (APPROX)

Standard Package Dimensions (max dimensions)

- **Length:** 81" / 2057mm (95" / 2413mm with Automatic Load Bank)
- **Width:** 52" / 1325mm
- **Height:** 65" / 1659mm
- **Weight:** 3950lb / 1780kg (ready to run with battery and full DEF tank)

SOUND LEVEL

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- No Load, @ 7m (23ft) - 82dB(A)
- Full Load, @ 7m (23ft) - 84dB(A)

WARRANTY: all models are covered by a comprehensive limited warranty

- Package: 1 Year / Unlimited Hours
- Isuzu Engine: Major components - 5 year/5000hr; All other components - 1 year unlimited hours
- Stamford Generator: 1 Year / Unlimited hours



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OPTIONAL ACCESSORIES:

ENGINE SYSTEM

- Engine coolant heater—120V
- Battery charger—120V
- Battery blanket—120V
- Battery disconnect lockout switch
- Thermostatic radiator shutter kit
- Diesel-fired engine coolant heater (hydronic)
- Positive Air Safety Shutoff Valve
- Sub-base fuel tank - 400L/90gal



AC ELECTRICAL SYSTEM

- Main Circuit Breaker (120/240V 1PH; 120/208V 3PH; 277/480V 3PH; 347/600V 3PH)
- Electrical Distribution Panel- customized build; full load center; Square D components
- AC Amperage metering package. Display 3-Phase AC Amperage (standard feature on this model)



LOAD BANK MANAGEMENT SYSTEM

- 30kW Automatic load bank control system will improve performance and reliability of Tier 4 engines during critical operations.
- Load bank will automatically operate during 'light load' conditions preventing wet stacking and soot build-up in the exhaust system.
- Integrally mounted load bank for aesthetics and optimal performance.



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