



WTI35E - 35kWe Generator

General Information

- Generator set rating of 35kWe prime power output. These ratings are based upon standard rating conditions. It may be necessary to derate the set's output for altitudes above 1000' (305 meters) or for ambient temperatures above 77 F (25 C).
- Available in 120/240V single phase, or 120/208V, 277/480V, and 347/600V three phase at 60hz.
- The engine and form wound four pole AC generator are direct coupled and mounted on a rugged steel base frame. All components are suitable for prime power usage
- The generator set is thoroughly load tested prior to shipment

Standard Engine

- Kubota Natural Gas model WG3800 Inline 4 engine with full flow, replaceable lube oil, fuel, and air filters. Electronic speed governing provides 0.5% speed regulation, no load to full load. EPA certified with catalysts.
- Liquid cooled with industrial grade radiator and belt driven blower fan
- Available in Natural Gas or Propane

Standard Generator

- Newage Stamford UCI224D form wound, Brushless, four pole (1800 rpm) generator
- Solid state, +/- 1% automatic voltage regulation
- PMG excitation
- CSA approved construction

Standard Controls and Accessories

- Deep Sea DSE7410 Standard controller c/w 4 output relays
- Built in Modbus and Ethernet Communications
- Safety shutdowns, electrical protections included
- Emergency stop button
- · Resettable fusing

Ratings

	Prime Power Rating – 105C rise		
Voltage	KWe/KVA	Amps	PF
120/240	35/35	145	1
120/208	35/43	121	0.8
277/480	35/43	53	0.8
347/600	35/43	42	0.8

Technical Information

Engine

Manufacturer Kubota WG3800 Model Displacement (L) 3.769 L Configuration Inline 4 Bore and Stroke (mm) 100 x 120 Rated Speed 1800 rpm 10:1 Compression Ratio Engine Weight (Dry) 268 kg Flywheel Housing SAE 3

Fuel System

Fuel type Natural gas
Specific Fuel Consumption 0.38 lb./HPh
Fuel Requirements -100% Load 437.23 SCFH

(Based on a LHV of 1090 BTU/scf. Actual fuel consumption

varies with site conditions and fuel energy content)
Fuel Pressure .98 – 3.45 kPa
Fuel Connection 1.5" NPT

Fuel type Propane Liquid
Specific Fuel Consumption 0.395 lb./HPh
Fuel Requirements -100% Load 26.27 lb./hr.
Fuel Pressure 15 – 240 PSI
Fuel Connection 1/4" NPT

Oil System

Grade SAE 10W-30 Low Ash

Motor Oil Capacity 75 L

Filter Full Flow Spin on with

Bypass filter

Cooling System

Radiator Finned Tube

Material Copper core, soldered

Fan Type 30" blower Recommended coolant 50/50 Cooling Air flow 80 m3/min

Coolant Capacity (Inc. Rad) 9 L

Air Intake

Filter Replaceable element

Combustion Air Flow 2.6 m3/min

Exhaust System

Exhaust flow at rated kWe 8.2 m3/min Exhaust temperature at rated kWe 1420°F

DC Electrical System

Starter 12V, 2.5kW
Alternator 12V, 100 Amp
Battery Required 12V, 650CCA min

Alternator

Manufacturer Newage Stamford

Model UCI224D

Construction Form wound, four pole,

Brushless Single Bearing

60 Hz Voltages and Ratings (3 phase)

Voltage	125 Rating	105 Ratings
120/240	44kW	40kW
120/208	48kW	42kW
277/480	52kW	46kW
347/600	52kW	46kW

Voltage Regulator (standard) SX460 AVR +/- 1.05 Telephone Interference THF < 2%

Winding Pitch
Control System
The < 2%
Two thirds
Self excited

(PMG optional)

Weight 307 kg

Cooling Air Flow 0.216 m3/sec

Ancillary Equipment

Mounting Steel Base with Mounting

Holes

Isolators Six composite mounts

DeepSea 7410 Controller

Provides Generator set control, monitoring, diagnostics for single generator systems with premium performance and flexibility.

- 4-line back lit LCD display provides local data access
- Measurements are selectable in metric or English units
- Remote communication through serial configuration
- Controller supports Modbus RS485 or Ethernet protocol
- Integral PLC editor for easy configuration
- Optional Heated display
- Display and storage of engine codes
- 4 digital outputs with form "C" contacts
- 6 configurable digital inputs