



## WTI6M/E – 6kWe Generator

### General Information

- Generator set rating of 6kWe 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).
- Standard unit supplied in 120/240V single phase. Available in 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 DG972 or Propane model WG972 Inline 3 engine with full flow, replaceable lube oil, fuel, and air filters. Electronic speed governing provides 1% speed regulation, no load to full load. EPA certified.
- Liquid cooled with industrial grade radiator and belt driven blower fan
- Available in Natural Gas or Propane

### Standard Generator

- Newage Stamford S0L1-J form wound, Brushless, four pole (1800 rpm) generator
- Solid state, +/- 1% automatic voltage regulation
- CSA approved construction

### Standard Controls and Accessories

- Deep Sea DSE4520 Standard controller c/w 3 output relays
- Build in Modbus and Ethernet Communications
- Safety shutdowns, electrical protections included
- Resettable fusing

### Ratings

	Prime Power Rating – 105C rise		
Voltage	KWe/KVA	Amps	PF
120/240	6/6	25	1
120/208	6/7.5	21	0.8
277/480	6/7.5	10	0.8
347/600	6/7.5	7	0.8

## Technical Information

### Engine

Manufacturer	Kubota
Model	DG972/WG972
Displacement (L)	0.972 L
Configuration	Inline 3
Bore and Stroke (mm)	74.5 x 73.6
Rated Speed	1800 rpm
Compression Ratio	9.2:1
Engine Weight (Dry)	95.4 kg
Flywheel Housing	SAE 3

### Fuel System

Fuel type	Natural gas
Specific Fuel Consumption	287.5 g/kwhr
Fuel Requirements -100% Load	100.27 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	½" NPT

Fuel type	Propane
Specific Fuel Consumption	0.495 lb./HPh
Fuel Requirements -100% Load	9 lbs./HR
Fuel Pressure	15 – 200 PSI
Fuel Connection	1/4" NPT

### Oil System

Grade	SAE 10W-30 Low Ash
Motor Oil Capacity	70 L
Filter	Full Flow Spin on with Bypass filter

### Cooling System

Radiator	Finned Tube
Material	Copper core, soldered
Fan Type	Pusher
Recommended coolant	50/50
Cooling Air flow	1381 CFM
Coolant Capacity (Inc. Rad)	7 L
WTI6M	
Fan Type	Spal Electric, Pusher
Fan Power	30 amps @ 12VDC

### Air Intake

Filter	Replaceable element
Combustion Air Flow	0.77 m3/min

### Exhaust System

Exhaust flow at rated kWe	2.23 m3/min
Exhaust temperature at rated kWe	850°F

## DC Electrical System

Starter	12V, 2.5kW
Alternator	12V, 40 Amp
Battery Required	12V, 650CCA min

### Alternator

Manufacturer	Newage Stamford
Model	S0L1-J
Construction	Form wound, four pole, Brushless Single Bearing

### 60 Hz Voltages and Ratings

Voltage	125 Rating	105 Ratings
120/240, 1PH	9.7kW	8.7kW
120/208	10.5kW	9.6kW
277/480	12kW	11kW
347/600	12kW	11kW

Voltage Regulator (standard)	AS540 AVR +/- 1.0
Telephone Interference	THF < 2%
Winding Pitch	Two thirds
Control System	Shunt Field
Weight	254 lbs
Cooling Air Flow	0.216 m3/sec

### Ancillary Equipment

Mounting	Steel Base with Mounting Holes
Isolators	Six composite mounts

### DeepSea 4520 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 thru r serial configuration
- Integral PLC editor for easy configuration
- Optional Heated display
- 3 digital outputs with Form "C" contacts
- 1 Configurable Digital input