MILLER HEAVY EQUIPMENT

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FOR SALE TWO USED GAS TURBO-GENERATOR 1000KW PACKAGED BY MTT (Year 2013) (Marine Turbine Technologic)

For Price contact Jorge Blanco at MHE



Both packages have been serviced and the lube oil system flushed. The gas fuel control system has had maintained and fully tested.

The metering control valve was serviced and calibrated by the manufacturer in San Diego California (Continental Corp).

The package operationally is very versatile; it can be put in service in less than 5 minutes without any external power supply. It counts with its own auxiliary system to startup from 0 to 100% speed meeting the blackout's control feature.

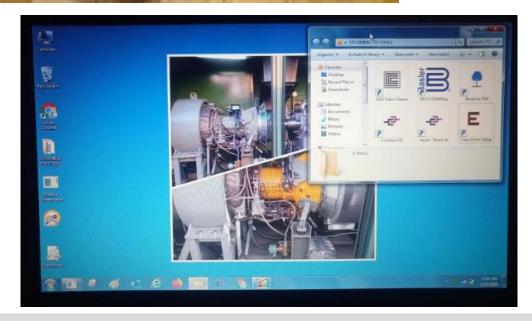
To put in service is fast and easy, it just needed to hook up a 2" hose to supply the natural gas.

Notes:

1. The package comes equipped with an operational laptop including all the tools needed to monitoring the system parameters and operate the equipment (start/ stop/load).

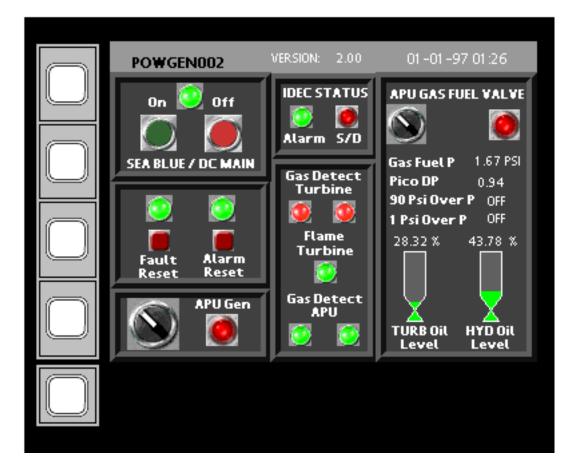
 Package 1: 2750 fired Hrs / Package 2: 1784 fired Hrs
 Package can be tested and loaded with a previous deposit and an appointment; some conditions are appliable.

4. Ex-works Florida



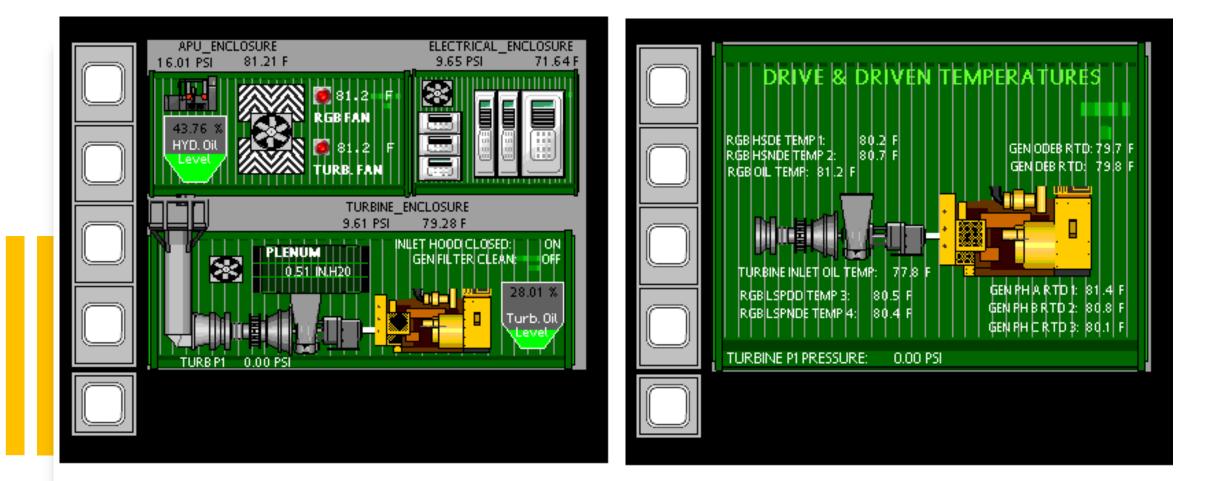


LAPTOP AND APPLICATIONS TOOLS

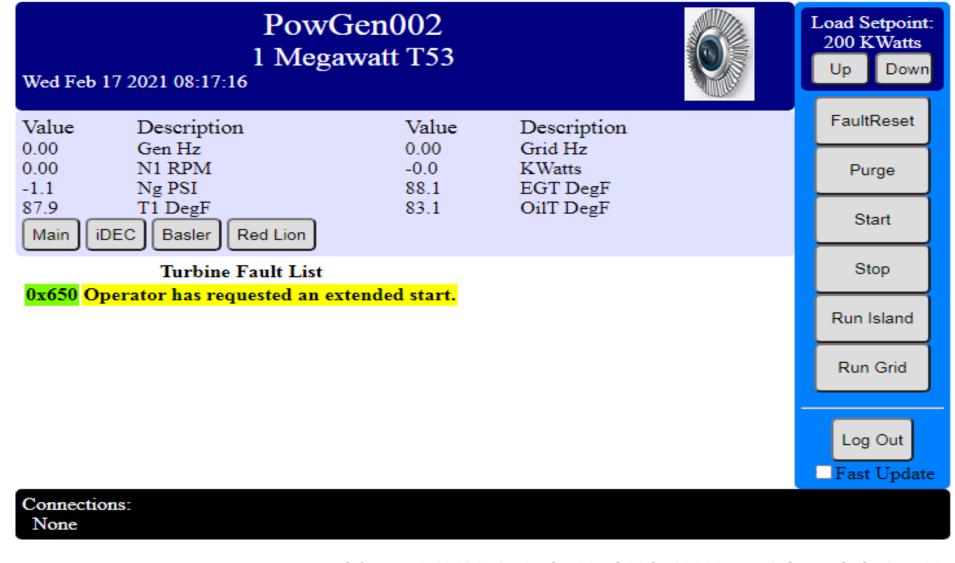


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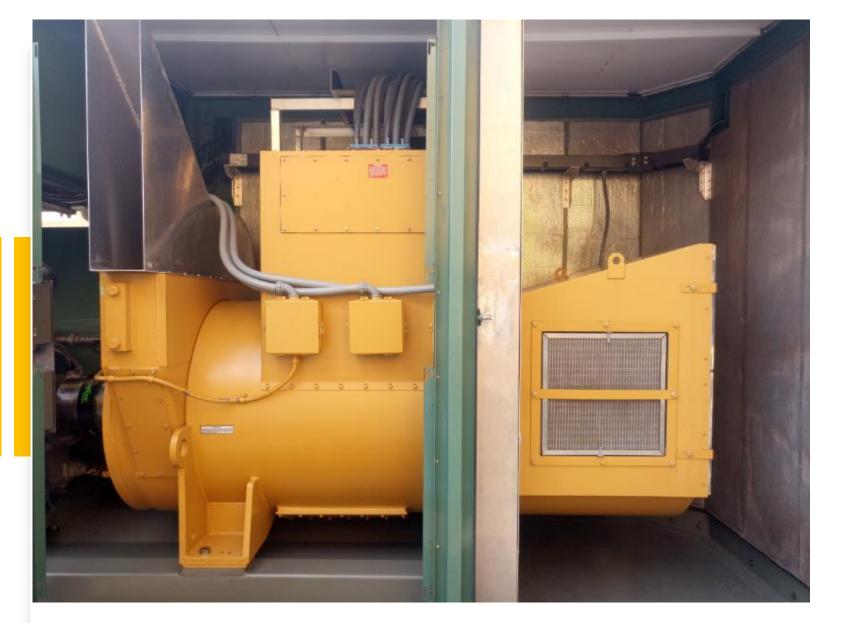
SCREEN AVAILABLES THROUGTH WEB PAGE



SCREEN AVAILABLES THROUGTH WEB PAGE



SCREEN AVAILABLES THROUGTH WEB PAGE TO STARTUP



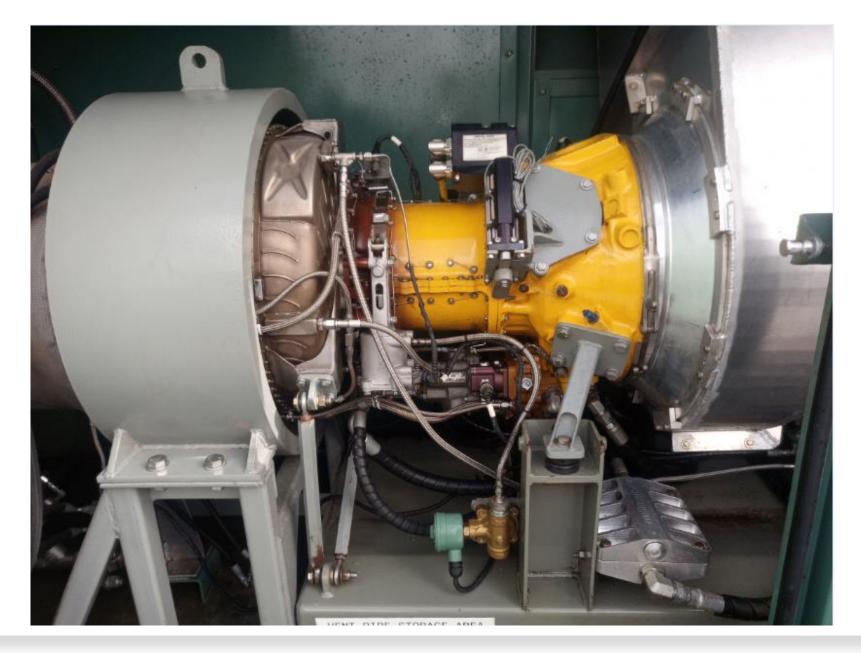




MAIN GENERATOR



ENGINE TPT 8053



ENGINE TPT 8051



GAS FUEL SYSTEM











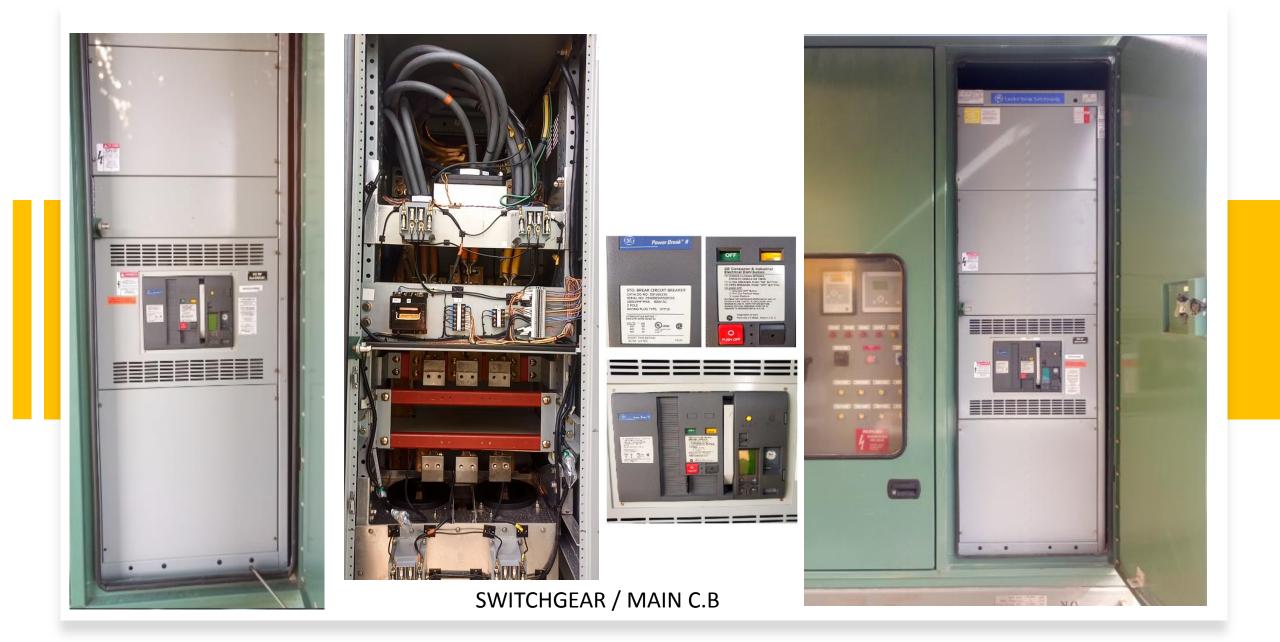
FIRE AND GAS SYSTEM



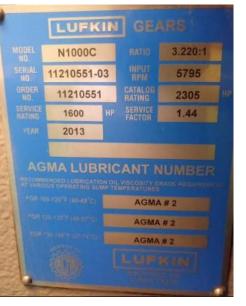




BASLER GENERATOR CONTROL

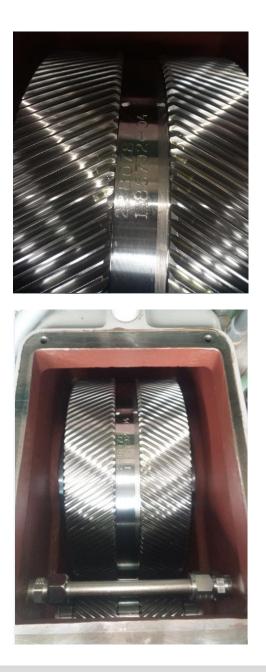












GEARBOX









On-Board Auxiliary Power Unit

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Both units are identical.

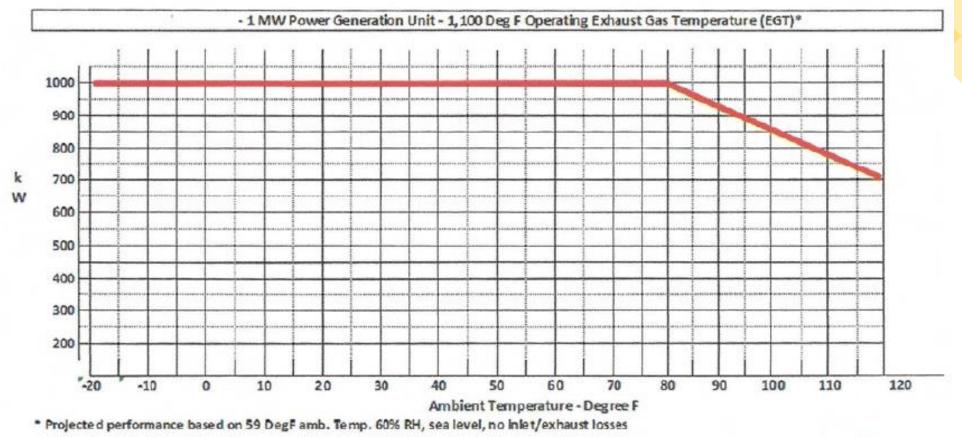


FOR FURTHER DETAILS ATTACHED IS THE PACKAGE BROCHURE

Performance

- Output Power 1,000 kW 480V
- Heat Rate 13,200 BTU/kWe-hr
- Exhaust Flow 11.7 lb/sec
- Exhaust Temperature 1,100 Degrees F
- Nominal Rating per ISO at 59 Degrees F, Sea Level
 - No Inlet/Exhaust/Accessory Losses
 - Relative Humidity 60%
 - Natural Gas Fuel with LHV = ~1000 BTU/scf





	Heat Rate
1000 kW	13.2 mBtu/hp-hr Heat Rate
750 KW	14.2mBtu/hp-hr Heat Rate
500 KW	17.4 mBtu/hp-hr Heat Rate

1

Degree F @ Standard Day

ELEV ATION (
1000	0.964	
2000	0.930	
3000	0.896	
40 00	0.864	
5000	0.832	
60 00	0.801	

General Specifications

- Engine
 - Split Shaft Gas Turbine
 - Five Stage Axial Single Stage Centrifugal Compressor
 - Compressor
 - Variable inlet guide vanes
 - Pressure ratio 7.2
 - Combustion Chamber, Annular
 22 gas nozzles
 High energy ignition
 - Power Turbine
 - Two stage reactive
 - Power takeoff speed 60-Hz 5800 rpm
 - Vibration Transducer
 - Accelerometer inlet casing Accelerometer rear turbine (available)
- Reduction Gearbox
 - Single Reduction Parallel Shaft 1800 RPM
 - Vibration (casing, radial and proximity probes)
 - Temperature RTD at each Journal Bearing



Generator

- 4 Pole, 3 Phase, 60-Hz, 4 Wire WYE Connection
- Synchronous w/Permanent Magnet Generator Exciter
- 2 Regreasable Anti-Friction Bearings
- Temperature Rise 105 Deg C / 40 Deg C
- NEMA Class F Insulation
- Enclosure IP-23 Open Drip Proof w/Filter
- Footprint
 - Approximate Weight: 38,000 lbs.
 - Package Dimensions: 25' Long x 8' Wide x 9.5' Tall
- Enclosure
 - Complete Package
 - Fire and Gas Detection
 - Fire Suppression (available)
- Starting System
 - Hydraulic via Onboard HPU
 - Black Start Capable

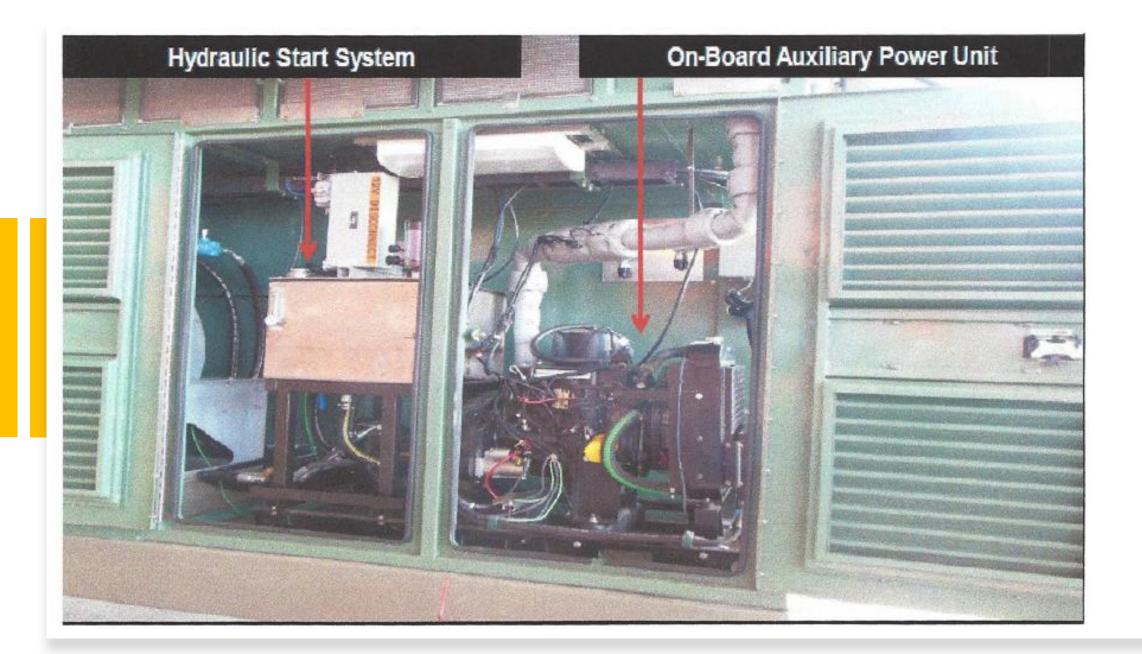






- Package Codes, Regulations and Standards
 - NEC, NFPA, IEEE, NEMA, API, OSHA
- · Fuel System
 - Natural Gas
 - Dual Fuel Available (Diesel and Natural Gas)
- Lube Oil System
 - Turbine Driven Lube Pump
 - Turbine Lube Oil Tank
 - Reduction Gearbox Driven Lube Pump
 - Reduction Gearbox Lube Oil Pre-Heater
 - Dual Core Air-Oil Heat Exchanger
- Air Inlet and Exhaust
 - Dedicated Filtered Gas Turbine Air Inlet Plenum
 - Attenuated Inlet
 - Attenuated Exhaust

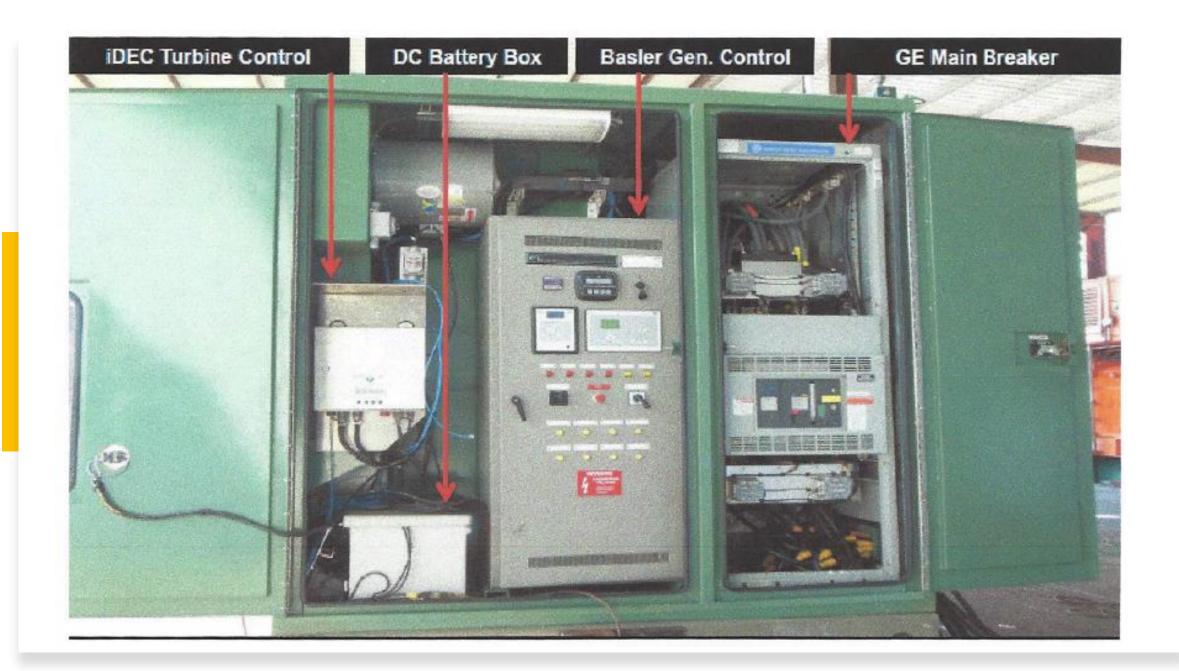




- Gas Turbine Cleaning System
 - Pre-plumbed
 - Portable Cleaning Tank (available)
- TPG Package Power
 - 12V and 24V DC Battery / Charging Systems
 - Solar Panel
- TPG Engine and Generator Control
 - TES iDEC Gas Turbine and Generation System Control
 - Basler Generator Controls
 - Lynx CPU, Red Lion Ethernet Modbus Supervisory Interface

Field Maintenance

- 30,000 Hour Engine Life Before Overhaul
- On Site Module and Engine Exchanges
- Follows a Prescribed PM Schedule Based on the Application



Emissions Data - November 2013 - 004 - T53 on Compressed Natural Gas (CNG)

Engine Percent of Power	KW Load	CO PPM	NOX PPM @ 15%	SO2 PPM	NMHC PPM
30%	300	173.10	31.73	0.11	1.71
50%	500	73.05	41.04	0.33	0.01
75%	750	34.47	50.73	0.69	0.00
100%	1000	8.66	68.00	0.79	0.00

Emissions Data - November 2013

- 004 - T53 on #2 Diesel Liquid Fuel

Engine Percent of Power	SHP at Dyno	CO PPM	NOX PPM @ 15%	SO2 PPM	NMHC PPM
30%	400	355.35	37.33	3.38	33.93
50%	670	205.05	48.46	2.06	12.07
75%	1005	79.29	61.58	1.31	1.16
100%	1340	27.75	74.58	0.93	0.03

