



MOBILE TURBINE LCP M35

The **LCP M35 Turbine** is an extremely versatile turbine package capable of delivering 35MW of power. With dual fuel (liquid or gaseous) capabilities, 50/60Hz operable and with a water injection ring fitted as standard it can meet multiple applications. Additionally, it has quick setup times, allowing it to be a good fit for frequent move applications.

PERFORMANCE INFO-ELECTRICAL*

Exhaust Water Injection		YES	NO
Frequency Options	Hz	60	60
Power Output (Standby)	kW	35,020	34,500
Power Output (Prime)	kW	35,020	34,500
Power Output (Continuous)	kW	35,020	34,500
Voltages(s) Output	V	13,800 +/- 10%	13,800 +/- 10%
Maximum Amps/Phase	Amps	1,400	1,400
Black Start Power Requirement	kW(V)	1,000kW (480V)	1,000kW (480V)
Max Transient Load (Load Step)	kW	25,000	25,000
Startup Time (From Ready to Start)	mins	5	5
Cool Down Time Before Restart	mins	15 Controlled	4 Hrs. Uncontrolled
Max Altitude	ft	8,000	8,000
Max Ambient Temperature	deg F	130	130
Min Ambient Temp W/O Winterization	deg F	-40	-40

PERFORMANCE INFO-FUEL**

Specific Energy Consumption (Heat Rate)	btu/kW-hr	9,105	8,877
Specific Fuel Consumption – NG	scf/kW-hr	9.1	8.9
Ng Fuel Pressure Range (Limits)	psi	385-575	385-575
Ng Fuel Pressure Range (Preferred)	psi	480-520	480-520

* Power output is based on iso conditions (sea level and 59°F), 60Hz, for actual performance, refer to derate tables below or contact Lifecycle Power, 50Hz performance (if available) are provided on request

** Fuel consumptions are based on 100% loading at ISO conditions utilizing commercial spec fuels, for detailed performance refer to derate table below or contact Life Cycle Power

Key Features of the M35

- GE LM2500+G4 turbine
- Capability of installation in less than 24hrs from arrival on site
- 60Hz, 13.8kV generator (Auxiliary transformer to run at 12.47kV or 13.8kV). Oversized for future insertion of the LM2500+G5
- 99.9% GE LM2500+G4 reliability, Thousands of gas turbine installations globally
- Transported as four trailers (Turbine, Generator, Air inlet. Exhaust)
- Integrated ATS and low Voltage transformer for control power. Allows Black start to be switched off once turbine is operational
- Integrated control room on trailer
- Hydraulic turbine starter
- Dual frequency available (50/60Hz)
- Optional water injection provided for reduced emissions
- Accepts Diesel, LNG, CNG, pipeline, hydrogen blends or field gas as fuel
- Can be paralleled with all other LCP models to give microgrids capable of 100's of MW
- Proven capabilities operating on high BTU gas fuels- 1,400btu/ft3 standard, 1,900 btu/ft3 with treatment
- No oil or spark plug changes required (unlike engines) means no shutdown requirements until annual borescope and inspection
- No concrete pad required

MOBILE TURBINE

LCP M35



LIFE CYCLE
POWER

PERFORMANCE INFO-NOISE

Noise Level (3ft)	dBa	87
Noise Level (100)	dBa	84

PERFORMANCE INFO-EMISSIONS***

		YES	NO
Specific Water Consumption	Gall/kW-hr	0.052	0
Emission - NOX	g/kW-hr (g/bhp-hr)	0.4 (0.3)	3.72 (2.77)
Emission - CO	g/kW-hr (g/bhp-hr)	0.77 (0.57)	0.04 (0.03)
Emission - THC	g/kW-hr (g/bhp-hr)	0.12 (0.09)	0.01 (0.01)
Emission - NMHC	g/kW-hr (g/bhp-hr)	0 (0)	0 (0)
Emission - PM	g/kW-hr (g/bhp-hr)	0.05 (0)	0.05 (0)
Emission - SO	g/kW-hr (g/bhp-hr)	0 (0)	0 (0)
Emission - CO2	g/kW-hr (g/bhp-hr)	522 (389)	509 (379)

PHYSICAL INFORMATION

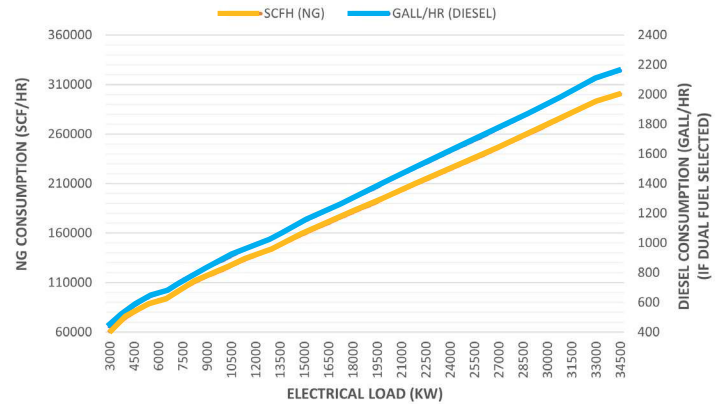
Qty Of Trailers Required		4
Weight (Trailer 1) Generator	lbs.	224,000
Weight (Trailer 2) Turbine	lbs.	107,000
Weight (Trailer 3) Air Inlet	lbs.	80,000
Weight (Trailer 2) Exhaust (Transport)	lbs.	73,000
Total Weight	lbs.	484,000
Ground Preparation Requirements	Compacted Base	
Dimensions (Trailer 1)	LxWxH (ft)	71x8.5x13.5
Dimensions (Trailer 2)	LxWxH (ft)	59 x 2 x 23
Liquid Fuel Skid		
Dimensions (Trailer 3)	LxWxH (ft)	24 x 8.5 x 14
Dimensions (Trailer 4)	LxWxH (ft)	24 x 8.5 x 14
Total Installed Footprint	LxW (ft)	90 x 40
Average Install Man Hours	hrs	12

ONSITE CONNECTIONS**

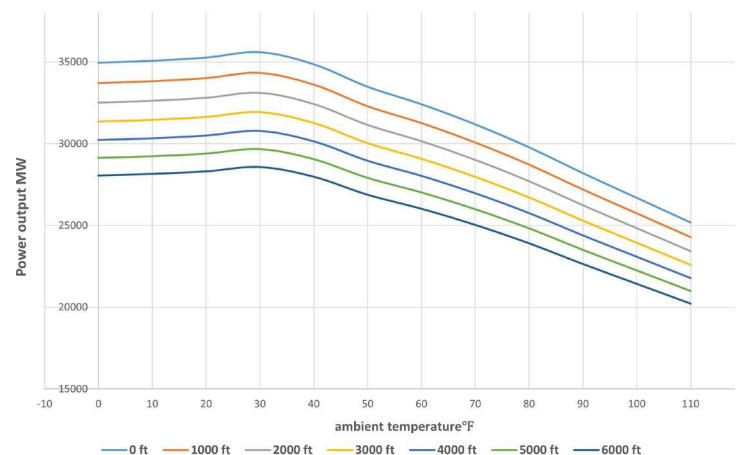
Fuel NG	3" 600lb ANSI Flange
Fuel Diesel	1.5" 600lb ANSI Flange
Electrical Load Out	Dead Break Connections 2 Run/Phase 750mcm
Grounding	High Resistance Grounding System
Black Start	MELTERIC DR400
Water Exhaust Injection (If installed)	1" 600lb Ansi Flange

*** Emissions based on pipeline quality NG fueled & iso conditions. For site-specific emissions performance contact Life Cycle Power

LCP M35 FUEL CONSUMPTION VS. LOAD



M35 MAX AVAILABLE POWER



MAJOR COMPONENTS

