

FT8[®] MOBILEPAC[®] Gas Turbine Package

The MOBILEPAC[®] gas turbine package utilizes the proven FT8[®] aero-derivative engine to deliver 31 MW of fast, flexible, and mobile power, ideal for your most demanding applications. The MOBILEPAC[®] gas turbine package design includes two trailers. The first contains the gas turbine, electric generator, exhaust collector, diffuser, and engine lube oil system. The second trailer carries the 15-kilovolt switchgear, control system, operation panel, protective relays, batteries and charger, motor control center, and the hydraulic start package. A pre-commissioned MOBILEPAC[®] gas turbine package can be driven to a site and begin generating power in less than one day.

AERO-DERIVATIVE ADVANTAGE:

- ✓ Flexible, mobile solutions customized to meet demanding customer requirements
- ✓ Reliable peaking or baseload power within a compact footprint
- ✓ Superior fault-ride-through and grid stability characteristics
- ✓ Fast-track deployment/installation
- ✓ Multiple gas and liquid fuel options
- ✓ Low-cost O&M

OPERATE AND MAINTAIN:

Proven mobile gas turbine packaging
 Integrated ancillary systems
 Limited on-site inventory
 Ease of operation and maintenance
 Quick engine changeout



POWER

31 MW

EFFICIENCY

36.7%

PACKAGE, INSTALL, COMMISSION:

Modular, mobile design
 Maximum factory assembly
 Optimized shipping sizes
 Prefabricated field piping
 Interconnecting quick-disconnect cables
 Reduced transportation time and cost
 Minimal installation time
 Efficient commissioning
 Compact Power trailer and Controls trailer
 Power Trailer weighs 94,495 lbs; 42,862 kg
 Control Trailer weighs 48,823 lbs; 22,146 kg

PERFORM:

High part load efficiency
 Synchronous condensing
 Low turndown ratio

The FT8® MOBILEPAC® gas turbine package has the most flexible layout in the industry, either in-line or parallel, using an 80 X 54 square foot area. Very little advanced site preparation is required, and no foundation or concrete pad is necessary for installation of the unit. The unit is transportable by land, sea, or air, allowing worldwide delivery of the MOBILEPAC® gas turbine package.

PERFORMANCE:	(50Hz)	(60Hz)
ISO Base Rating	28,528 kW	30,941 kW
Efficiency	34.7%	36.7%
LHV Heat Rate	9,834 Btu/kWh	9,312 Btu/kWh
	10,386 kJ/kWh	9,825 kJ/kWh
Exhaust Flow	203 lb/s	202 lb/s
	92 kg/s	92 kg/s
Exhaust Temp.	924°F	916°F
	496°C	491°C
Ramp Rate	15 MW/min	15 MW/min
Start Time	< 10 minutes	< 10 minutes

SPECIFICATIONS:	
Fuel	Natural Gas/Liquid Fuel
Type of Generator	Open-ventilated Air Cooling/ 15kV
NOx Control	Water Injection
NOx	25 ppm or 50 mg/m ³
Min. Turndown	50% (while maintaining emissions)
Min. Stable Load	5%
Starting Method	Hydraulic



BENEFITS:
Ready for emergency power within one day (site-ready)
Dual fuel/dual frequency
Optional black start capability
Flexible trailer siting
Highway compatible
Three-point support and structural rigidity to maintain generator alignment
Remote operation

ADDITIONAL SPECS:	
Gas fuel hot section inspection hours	25,000
Major shop inspection hours	50,000
Sound level, near field (dBA, average)	95
Parallel Configuration (ft)	80 X 54
Parallel Configuration (m)	24.5 X 16.5
In-line Configuration (ft)	126 X 35.5
In-line Configuration (m)	39 X 11

FT8MP-FS-0125

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628 Hebron Avenue, Suite 400
Glastonbury, CT 06033
+1-860-368-5900

Mitsubishi Power Aero LLC

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