

# FT8<sup>®</sup> MOBILEPAC<sup>®</sup> Gas Turbine Package

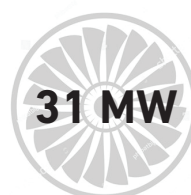
The MOBILEPAC<sup>®</sup> gas turbine package utilizes the proven FT8<sup>®</sup> aero-derivative engine to deliver 31 MW of fast, flexible, and mobile power, ideal for your most demanding applications. The MOBILEPAC<sup>®</sup> gas turbine package design includes two trailers. The first contains the 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, and the motor control center. A pre-commissioned MOBILEPAC<sup>®</sup> gas turbine package can be driven to a prepared site and begin generating power within one day.

## AERO-DERIVATIVE ADVANTAGE:

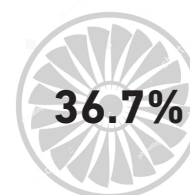
- ✓ Flexible, mobile solutions customized to meet demanding customer requirements
- ✓ Reliable peaking or baseload power within a compact footprint
- ✓ Superior fault-ride-through and grid stability characteristics
- ✓ Fast-track deployment/installation
- ✓ Multiple gas and liquid fuel options
- ✓ High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



## POWER



## EFFICIENCY



## 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

## OPERATE AND MAINTAIN:

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

The FT8® MOBILEPAC® gas turbine package has the most flexible layout in the industry, either in-line or parallel, using a minimum 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
Start-up Time (cold iron to full power)	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 <sup>3</sup>
Min. Turndown	50% (while maintaining emissions)
Min. Stable Load	5% (dry)
Starting Method	Hydraulic

#### BENEFITS:

- Ready for emergency power within one day (site-ready and pre-commissioned)
- 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-0525

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