



**TECHNO
POWER SYSTEMS**
YOUR PARTNER FOR RELIABLE POWER SOLUTIONS



DIESEL GENERATOR SET 610 kVA

Powered by
**Rolls-Royce FMTU Engine
Model FM 610**

**GLOBAL
POWER
LOCAL
SUPPORT**



HIGH
PERFORMANCE



FUEL
EFFICIENCY



RELIABLE
& DURABLE



LOW
MAINTENANCE



610 kVA Model FM 610



**12 CYLINDER
V TYPE**



**21 LITER
DISPLACEMENT**



RANGE : FMTU DIESEL GENERATOR SETS

FM380

380 kVA

FM400

400 kVA

FM450

450 kVA

FM500

500 kVA

FM550

550 kVA

FM610

610 kVA

KEY ADVANTAGES



**WORLD-CLASS
MTU ENGINE**



**HIGH
EFFICIENCY**



**LOWER
FUEL CONSUMPTION**



**LONG
SERVICE LIFE**



**EASY
MAINTENANCE**



**GLOBAL
PARTS SUPPORT**

APPLICATIONS



COMMERCIAL BUILDINGS



INDUSTRIAL PLANTS



CONSTRUCTION SITES



HOSPITALS



DATA CENTERS



INFRASTRUCTURE PROJECTS

TECHNO POWER SYSTEMS



#43/1, 19th Main Road, 11th Cross,
Avalahalli, Bengaluru, India, 560026



9342139468 / 7019320005



934141259 / 9341634777



tpsgenset@gmail.com

www.tpsgenset.com



**POWERING
YOUR NEEDS
SINCE 2000.**



**TECHNO
POWER SYSTEMS**
YOUR PARTNER FOR RELIABLE POWER SOLUTIONS



mtu
A Rolls-Royce solution

DIESEL GENERATOR SET

610 kVA

MODEL FM 610

GERMAN ENGINEERING.
GLOBAL RELIABILITY.
BUILT FOR A BETTER TOMORROW.



WORLD-CLASS
MTU ENGINE



LOWER
FUEL CONSUMPTION



LONG
SERVICE LIFE



EASY
MAINTENANCE



HIGH
PERFORMANCE



FUEL
EFFICIENCY



RELIABLE
& DURABLE



LOW
MAINTENANCE

TECHNICAL SPECIFICATIONS

	KVA (Prime)	610 kVA		Total Sump Oil Capacity	72.5 Liters
	kWe (Prime)	488 kWe		Total Coolant Capacity	135 Liters
	BHP (Engine Power)	703 BHP		Bore	122 mm
	kW (Engine Power)	524 kW		Stroke	150 mm
	Engine Model	12V1600G20F41N		Rated RPM	1500
	Type	4 Cycle		Governor	ECU 9
	No. of Cylinders	12 V (V Type)		Fuel System	Electronically Controlled, Common Rail
	Displacement	21 Liters		Aspiration	Turbocharged & Aftercooled

TECHNO POWER SYSTEMS



#43/1, 19th Main Road, 11th Cross,
Avalahalli, Bengaluru, India, 560026



9342139468 / 7019320005



934141259 / 9341634777



tpsgenset@gmail.com

www.tpsgenset.com



POWERING
YOUR NEEDS
SINCE 2000.



**TECHNO
POWER SYSTEMS**
YOUR PARTNER FOR RELIABLE POWER SOLUTIONS



mtu
A Rolls-Royce solution

DIESEL GENERATOR SET

610 kVA

MODEL FM 610

POWERED BY
ROLLS-ROYCE MTU ENGINE
SERIES 1600

POWERING
A MORE
SUSTAINABLE
TOMORROW

- High Power Density**
Compact design with maximum performance
- Optimized Fuel Efficiency**
Lower operating cost and reduced emissions
- Robust & Reliable**
Proven MTU Series 1600 for continuous operation
- Low Emissions**
Complies with global emission standards
- Long Service Life**
Engineered for durability and minimum downtime
- Advanced Electronics**
ECU 9 governing system for precise control
- Efficient Cooling System**
Designed for critical and high ambient applications



MTU SERIES 1600
610 kVA
12 CYLINDER V TYPE
21 LITER ENGINE

The MTU Series 1600 diesel engine is designed for high performance and low life-cycle costs, offering best-in-class reliability, fuel efficiency and service life.



TECHNICAL SPEIFRCATIONS

KVA (Prime)	610 kVA	Total Sump Oil Capacity	72.5 Liters
kWe (Prime)	488 kWe	Total Coolant Capacity	135 Liters
BHP (Engine Power)	703 BHP	Bore	122 mm
kW (Engine Power)	524 kW	Stroke	150 mm
Engine Model	12V1600G20F41N	Governor	ECU 9
Type	4 Cycle	Fuel System	Electronically Controlled, Common Rail
No. of Cylinders	12 V (V Type)	Aspiration	Turbocharged & Aftercooled
Displacement	21 Liters		
Rated RPM	1500 rpm		



TECHNO POWER SYSTEMS



#43/1, 19th Main Road, 11th Cross,
Avalahalli, Bengaluru, India, 560026



9342139468 / 7019320005



934141259 / 9341634777



tpsgenset@gmail.com

www.tpsgenset.com



POWERING
YOUR NEEDS
SINCE 2000.



**TECHNO
POWER SYSTEMS**
YOUR PARTNER FOR RELIABLE POWER SOLUTIONS



DIESEL GENERATOR SET 610 kVA MODEL FM 610

Powered by
**Rolls-Royce MTU Engine
Series 1600**

WITH MECCALTE
ALTERNATOR



**RELIABLE POWER
FOR A SUSTAINABLE
TOMORROW**

MECCALTE ALTERNATOR

EC040C SERIES - 4 POLE (C-TYPE)



High
Efficiency



Robust
& Reliable



Low
Maintenance



Global
Service Network



Proven
Technology



Compact & Rugged Design
Suitable for demanding applications

C-Type Design
Optimized cooling and high performance

Class H Insulation
For high temperature capability

IP23 Enclosure
Reliable operation in harsh environments

Mecc Alte Quality
Global support and proven technology

ALTERNATOR SPECIFICATIONS

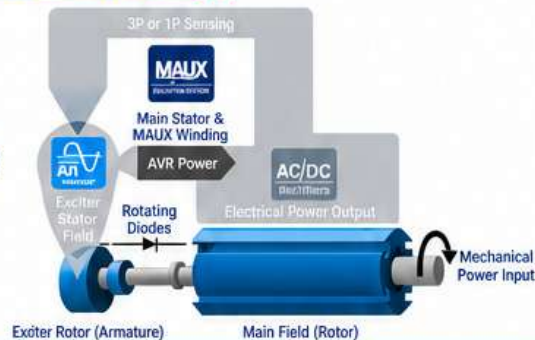
Alternator Rating	610 kVA
Duty	Prime
Insulation Class	H
Bearing	Single
Enclosure	IP23
Exciting System	MAUX
AVR Type	Digital DER1
Winding Pitch	2/3
Rated Speed	1500 rpm
Rated Voltage	415 V

MAUX EXCITATION SYSTEM

MAUX

EXCITATION SYSTEM

- Brushless excitation system
- High reliability and durability
- Compact and robust design
- Stable voltage control
- Less maintenance
- Proven in industrial and generator set applications



DIGITAL AVR - DER1

DER1

DIGITAL AVR



- Digital voltage regulation
- Excellent load response
- Wide adjustment range
- Enhanced protection functions
- High stability and accuracy
- Reliable operation in demanding environments

TECHNO POWER SYSTEMS



#43/1, 19th Main Road, 11th Cross,
Avalahalli, Bengaluru, India, 560026



9342139468 / 7019320005



934141259 / 9341634777



tpsgenset@gmail.com

www.tpsgenset.com



**POWERING
YOUR NEEDS
SINCE 2000.**



**TECHNO
POWER SYSTEMS**
YOUR PARTNER FOR RELIABLE POWER SOLUTIONS



**POWER
CONTROL
SOLUTIONS**

DEIF SGC 420

GENERATOR CONTROLLER

ADVANCED CONTROL FOR RELIABLE POWER GENERATION

Flexible. Intelligent.
Future-Ready.



**Built-in PLC
Functionality**
Configurable logic for
customized applications



Easy Integration
Designed for single
and multi-generator
applications



**Intuitive
User Interface**
Clear graphical display
for easy operation
and monitoring



**Flexible
Communication**
Supports multiple
communication protocols
(Modbus, Ethernet, CAN)



**Advanced
Generator Protection**
Comprehensive protection
functions for safe and
reliable operation



**Multiple Operating
Modes**
AMF, Load Sharing,
Peak Shaving and
Import/Export



**Event Logging
and Diagnostics**
Detailed event log,
alarms and real-time
diagnostics



KEY ADVANTAGES



**IMPROVED
PLANT EFFICIENCY**
Optimizes generator
performance



**ENHANCED
RELIABILITY**
Advanced protection
and monitoring



**FLEXIBLE &
SCALABLE**
Suitable for single
or multi-generator systems



**WIDE
COMMUNICATION**
Supports modern industrial
protocols



**EASY
OPERATION**
User-friendly interface
with clear display



**LOWER
MAINTENANCE**
Event logging and
diagnostics reduce downtime

TECHNICAL SPECIFICATIONS

Parameter	Specification
Model	DEIF SGC 420
Application	Generator control and protection
Number of generators	Single or multiple gensets (up to 32)
Operating modes	AMF, Manual, Load Sharing, Peak Shaving, Import/Export, Base Load
Display	Graphical LCD
Communication	Modbus RTU/TCP, Ethernet, CAN, USB
I/O	Configurable digital & analogue inputs/outputs
Protection functions	Over/Under voltage, Over/Under frequency, Overcurrent, Reverse power, Earth fault, etc.
PLC	Built-in PLC with configurable logic
Event log	Extensive event log with time stamp
Synchronization	Automatic synchronizing and load sharing
Power management	kW, kVA, kVAR, PF control
Certifications	CE, UL, Marine approvals (selected variants)

SYSTEM ARCHITECTURE



TECHNO POWER SYSTEMS

#43/1, 19th Main Road, 11th Cross,
Avalahalli, Bengaluru, India, 560026



9342139468 / 7019320005
934141259 / 9341634777
tpsgenset@gmail.com
www.tpsgenset.com



**POWERING
YOUR NEEDS
SINCE 2000.**



**TECHNO
POWER SYSTEMS**
YOUR PARTNER FOR RELIABLE POWER SOLUTIONS



DIESEL GENERATOR SET **610 kVA** MODEL FM 610

Powered by
Rolls-Royce MTU Engine
Series 1600



RELIABLE PERFORMANCE

Proven MTU technology
for continuous power



FUEL EFFICIENT OPERATION

Optimized combustion
for lower running cost



LOW EMISSIONS

Compliant with
global standards



LOW NOISE ACOUSTIC ENCLOSURE

Suitable for urban and
sensitive environments



EASY MAINTENANCE

Designed for long
service intervals

FUEL CONSUMPTION

Fuel consumption may vary $\pm 5\%$ as per
fuel density and quality.

Load	Fuel Consumption (Liters/Hour)	Relative Consumption
100%	103	
75%	83	
50%	66	
25%	48	



OPTIMIZED FUEL CONSUMPTION

Better efficiency
for lower running cost



COST EFFECTIVE OPERATION

Ideal for continuous
and heavy-duty applications



ENVIRONMENT FRIENDLY SOLUTION

Efficient combustion
for reduced emissions

INBUILT FUEL TANK



FUEL TANK CAPACITY

990 LITERS

- Integrated base frame with inbuilt fuel tank
- Robust design for long-duration operation
- Suitable for prime power applications

TECHNO POWER SYSTEMS



#43/1, 19th Main Road, 11th Cross,
Avalahalli, Bengaluru, India, 560026



9342139468 / 7019320005



934141259 / 9341634777



tpsgenset@gmail.com

www.tpsgenset.com



POWERING
YOUR NEEDS
SINCE 2000.



VE COMMERCIAL VEHICLES
YOUR PARTNER FOR RELIABLE POWER SOLUTIONS

DIESEL GENERATOR SET **610 kVA** MODEL FM 610

Powered by
**Rolls-Royce MTU Engine
Series 1600**



RELIABLE PERFORMANCE

Proven MTU technology
for continuous power



FUEL EFFICIENT OPERATION

Optimized combustion
for lower running cost



LOW EMISSIONS

Compliant with
global standards



LOW NOISE ACOUSTIC ENCLOSURE

Suitable for urban and
sensitive environments



EASY MAINTENANCE

Designed for long
service intervals

DIMENSIONS & WEIGHT



 **7500 kg**
(Weight)

TECHNO POWER SYSTEMS

 #43/1, 19th Main Road, 11th Cross,
Avalahalli, Bengaluru, India, 560026



9342139468 / 7019320005



934141259 / 9341634777



tpsgenset@gmail.com

www.tpsgenset.com



POWERING
YOUR NEEDS
SINCE 2000.



**TECHNO
POWER SYSTEMS**
YOUR PARTNER FOR RELIABLE POWER SOLUTIONS

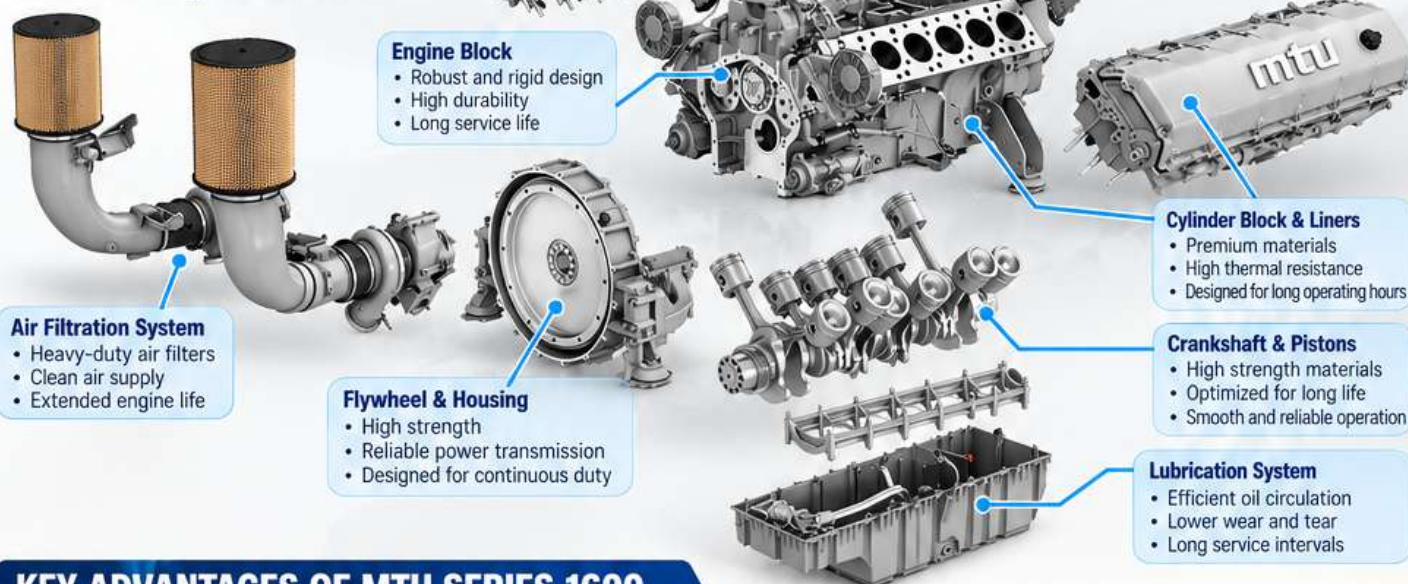


mtu
A Rolls-Royce solution

MTU SERIES 1600 GEN-DRIVE DIESEL ENGINE

**PROVEN POWER. MAXIMUM RELIABILITY.
FOR YOUR GENERATION NEEDS.**

The mtu Series 1600 is a high-performance, robust and reliable gen-drive engine, designed for continuous power generation. Engineered with advanced technology, it delivers excellent fuel efficiency, low emissions and long service intervals.



KEY ADVANTAGES OF MTU SERIES 1600



High Reliability

Proven design for continuous operation



Excellent Fuel Efficiency

Advanced common rail fuel injection technology



Long Service Intervals

Reduced maintenance costs



Low Emissions

Complies with global emission standards



Robust Design

Built for harsh operating conditions



High Power Density

More power in a compact design

A COMPLETE SOLUTION FOR POWER GENERATION



Advanced Engine Technology



Designed for Maximum Uptime



Lower Life Cycle Cost



Cleaner and Greener Power



TECHNO POWER SYSTEMS



#43/1, 19th Main Road, 11th Cross,
Avalahalli, Bengaluru, India, 560026



9342139468 / 7019320005



934141259 / 9341634777



tpsgenset@gmail.com

www.tpsgenset.com



**POWERING
YOUR NEEDS
SINCE 2000.**



TECHNO POWER SYSTEMS

YOUR PARTNER FOR RELIABLE POWER SOLUTIONS




A Rolls-Royce solution

DIESEL GENERATOR SET

610 kVA

MODEL FM 610

Powered by
Rolls-Royce MTU Engine
Series 1600





RELIABLE PERFORMANCE
Proven MTU technology for continuous power



FUEL EFFICIENT OPERATION
Optimized combustion for lower running cost



LOW EMISSIONS
Compliant with global standards



LOW NOISE ACOUSTIC ENCLOSURE
Suitable for urban and sensitive environments



EASY MAINTENANCE
Designed for long service intervals

ABOUT TECHNO POWER SYSTEMS (TPS)



Authorised Channel Partner
Proud Authorised Channel Partner for Rolls-Royce MTU gensets, delivering genuine products and expert support.



Serving the Power Industry
Over 26 years of experience in the power generation industry, trusted by customers across various sectors.



Load Analysis & Right Sizing
We analyse your power requirements and assist in selecting the perfect generator size for reliable and cost-effective operation.



After Sales Service
Comprehensive after-sales support with trained and experienced technicians, ensuring quick service, minimum downtime and long-term reliability.

TECHNO POWER SYSTEMS



#43/1, 19th Main Road, 11th Cross, Avalahalli, Bengaluru, India, 560026



9342139468 / 7019320005



934141259 / 9341634777



tpsgenset@gmail.com
www.tpsgenset.com



POWERING YOUR NEEDS SINCE 2000.