



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



mtu
A Rolls-Royce solution

DIESEL GENERATOR SET

500 kVA

MODEL FM 500



HIGH
PERFORMANCE



FUEL
EFFICIENCY



RELIABLE
& DURABLE

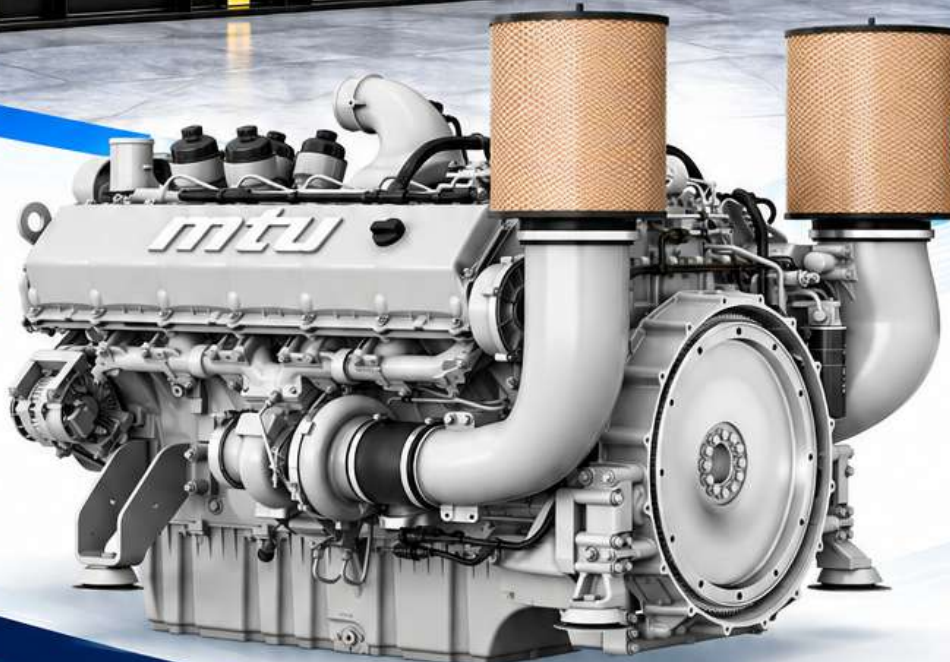


LOW
MAINTENANCE

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



POWERED BY
**ROLLS-ROYCE
MTU ENGINE**
SERIES 1600





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



ROLLS-ROYCE POWERED DIESEL GENERATOR SET

**MODEL
FM 500**

FUEL EFFICIENT | RELIABLE | DURABLE | CPCB IV+



LOWER EMISSIONS

CPCB IV+ compliant for a cleaner tomorrow



PROVEN TECHNOLOGY

World-class engine & alternator for continuous power



RELIABLE PERFORMANCE

Designed for maximum uptime even in demanding conditions



FUEL EFFICIENT

Optimized combustion for lower running cost



EASY MAINTENANCE

Service-friendly design for reduced downtime



MTU ENGINE

- High performance and fuel efficiency
- Reliable in extreme conditions
- Low emissions (CPCB IV+)
- Long service life



MEC ALTE ALTERNATOR

- High efficiency
- Robust and reliable
- Class H insulation
- Global reputation
- Suitable for continuous operation



DEIF INTELLIGENT CONTROL SYSTEM

- Comprehensive engine & generator protection
- User-friendly interface
- Real-time monitoring and diagnostics
- Multiple communication options
- Reliable and industry-proven



ACOUSTIC ENCLOSURE

- Low noise design
- Weatherproof and corrosion resistant
- Customized for tropical conditions
- Safe and aesthetically designed

TECHNO POWER SYSTEMS



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



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**POWERING
YOUR NEEDS
SINCE 2000.**



**TECHNO
POWER SYSTEMS**
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DIESEL GENERATOR SET 500 kVA MODEL FM 500



HIGH
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FUEL
EFFICIENCY



RELIABLE
& DURABLE



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WORLD-CLASS
MTU ENGINE



LOWER
FUEL CONSUMPTION



LONG
SERVICE LIFE



EASY
MAINTENANCE



TECHNICAL SPECIFICATIONS

KVA (Prime)	500 kVA	Total Sump Oil Capacity	60 Liters
kWe (Prime)	400 kWe	Total Coolant Capacity	60 Liters
BHP (Engine Power)	601 BHP	Bore	122 mm
kW (Engine Power)	448 kW	Stroke	150 mm
Engine Model	10V1600G20F4IN	Rated RPM	1500
Type	4 Cycle	Governor	ECU 9
No. of Cylinders	10 V (V Type)	Fuel System	Electronically Controlled, Common Rail
Displacement	17.5 Liters	Aspiration	Turbocharged & Aftercooled

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POWERED BY
ROLLS-ROYCE MTU ENGINE
SERIES 1600

POWERING
A MORE
SUSTAINABLE
TOMORROW



High
Power Density



Optimized
Fuel Efficiency



Robust
& Reliable



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



**Advanced
Electronics**
ECU 9 governing
system for precise
control



**Efficient Cooling
System**
Designed for critical
and high ambient
applications



Low Emissions
Complies with
global emission
standards

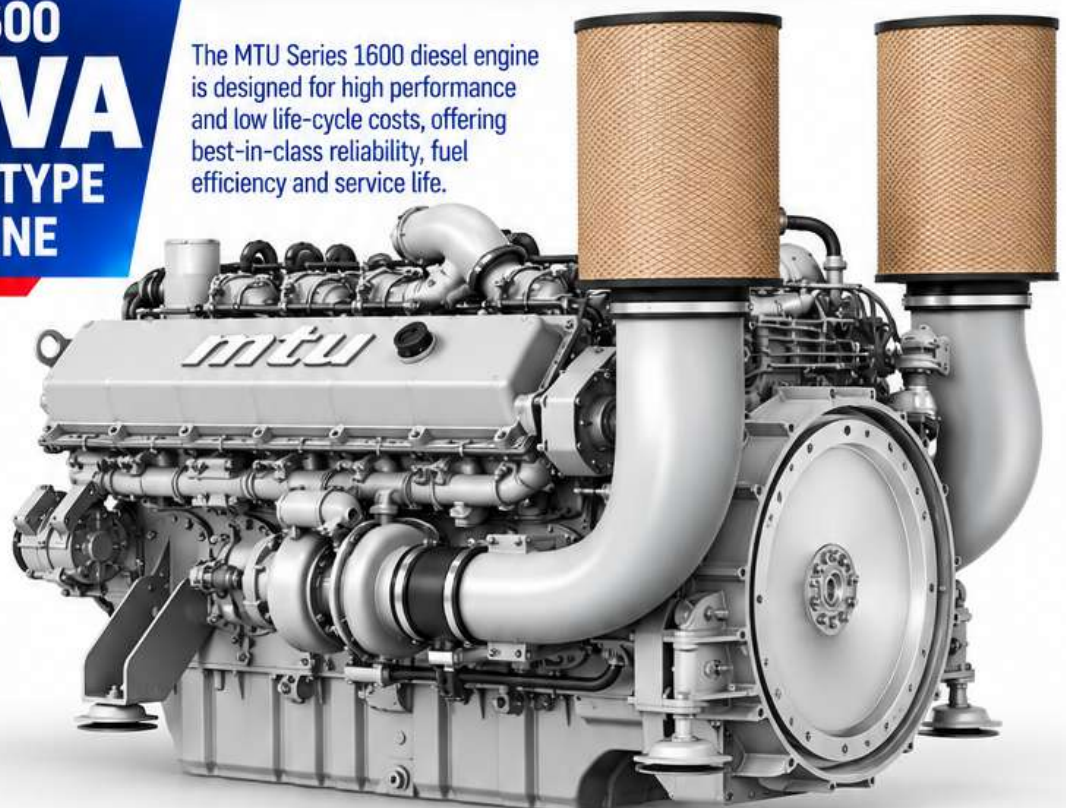


Long Service Life
Engineered for
durability and
minimum downtime



MTU SERIES 1600
500 kVA
10 CYLINDER V TYPE
17.5 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.





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DIESEL GENERATOR SET 500 kVA MODEL FM 500

Powered by
Rolls-Royce MTU Engine
Series 1600

RELIABLE POWER
FOR A SUSTAINABLE
TOMORROW



WITH MECCALTE
ALTERNATOR



MECCALTE ALTERNATOR

EC040C SERIES - 4 POLE (C-TYPE)



High
Efficiency



Robust
& Reliable



Low
Maintenance



Global
Service Network



Proven
Technology



C-TYPE

- 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

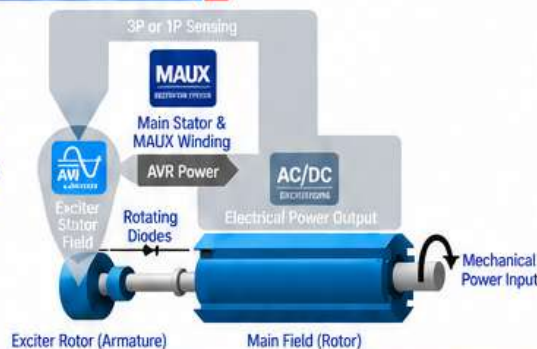
Alternator Rating	500 kVA
Duty	Prime
Insulation Class	H
Bearing	Single
Enclosure	IP23
Exciting System	MAUX
AVR Type	Digital DER1
Winding Pitch	2/3
Rated Speed	1500 rpm
Rated Voltage	415 V

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



POWERING
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DEIF AGC 150

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 AGC 150
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



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Series 1600

QUIETER OPERATION.
HIGHER RELIABILITY.
A GREENER TOMORROW.

ENGINEERED
FOR A SUSTAINABLE
TOMORROW



ACOUSTIC ADVANTAGE

SUPERIOR SOUND INSULATION FOR A QUIETER WORLD

Engineered with advanced acoustic enclosure technology to ensure low noise operation, making it ideal for urban, commercial and sensitive environments.



LOW NOISE OPERATION

Designed for
noise sensitive
areas



ACOUSTIC ENCLOSURE

High performance
sound insulation
materials



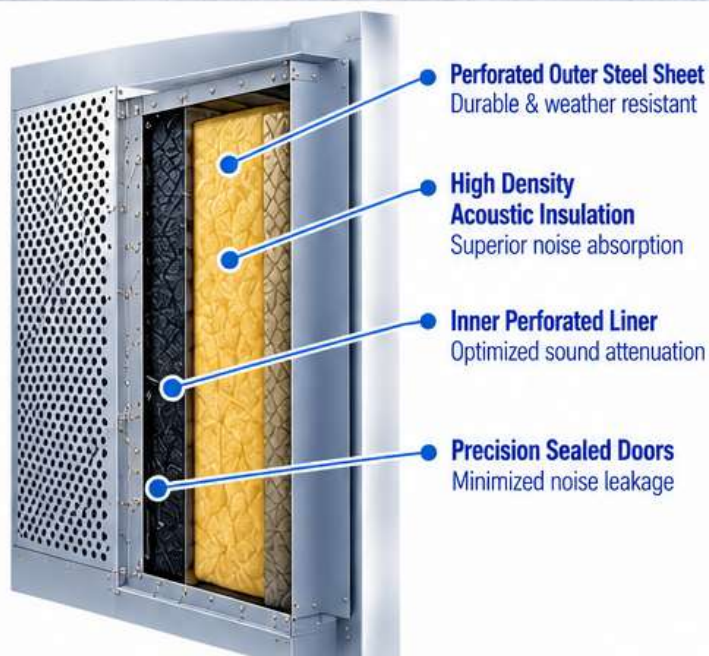
COMPLIES WITH STANDARDS

Meets global
noise emission
standards



ENVIRONMENT FRIENDLY

Quieter for a
cleaner and
better tomorrow



Perforated Outer Steel Sheet
Durable & weather resistant

**High Density
Acoustic Insulation**
Superior noise absorption

Inner Perforated Liner
Optimized sound attenuation

Precision Sealed Doors
Minimized noise leakage



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ENGINEERED
FOR A SUSTAINABLE
TOMORROW



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%	101	
75%	81	
50%	63	
25%	44	



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



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TOMORROW



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RELIABLE PERFORMANCE

Proven MTU technology
for continuous power



FUEL EFFICIENT OPERATION

Optimized combustion
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LOW EMISSIONS

Compliant with
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LOW NOISE ACOUSTIC ENCLOSURE

Suitable for urban and
sensitive environments



EASY MAINTENANCE

Designed for long
service intervals

DIMENSIONS & WEIGHT



5800 mm
(Length)



2210 mm
(Height)

2000 mm
(Width)

6700 kg
(Weight)



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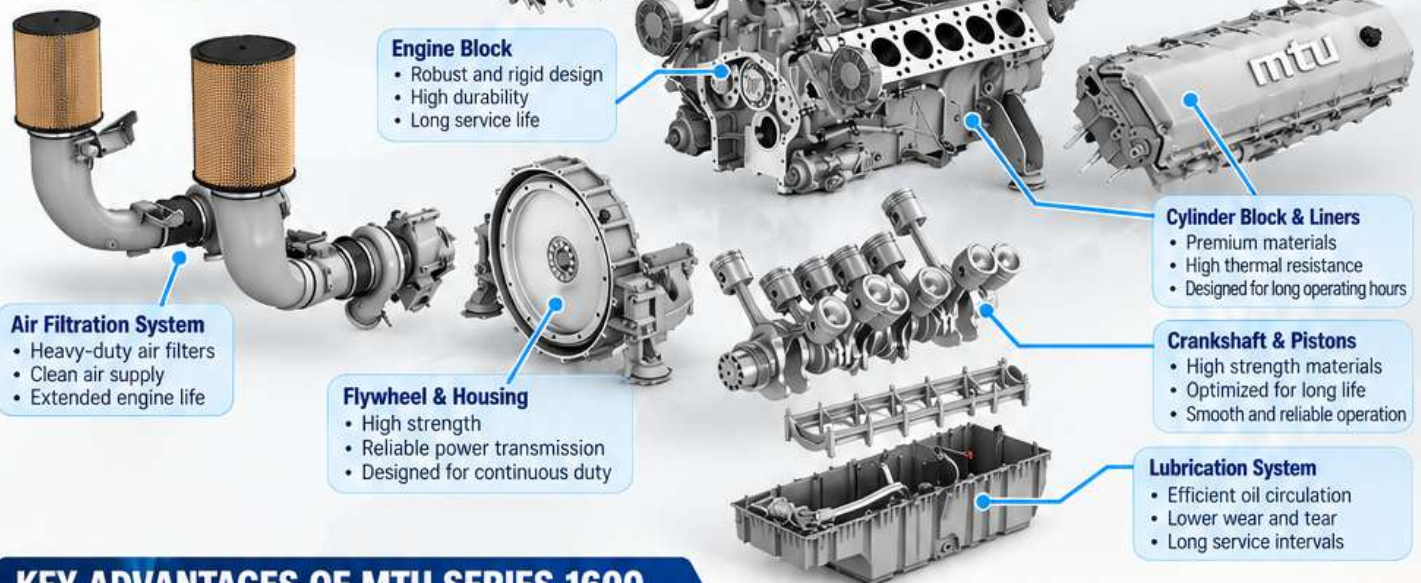
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MTU SERIES 1600 GEN-DRIVE DIESEL ENGINE

**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



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