

The **X-TYPE** Series

POWER FROM WITHIN

Performance in **4 DIMENSIONS** The X-TYPE Series



POWER FROM WITHIN



The **X-TYPE** Series

The new X-Type Series delivers high voltage dynamic performance with class-leading durability and efficiency in a flexible product range.

With a complete focus on high power products, our specialist Power Products division develops world-class alternators for Medium to High Voltage power classes.

Working along side our customers, we provide extensive support and cross-industry experience to create customised power solutions.

We guarantee peace of mind through proven reliability and consistent performance.





X-TYPE ECO47

X-TYPE ECO49

REALER ANCE



Extended power range from 1,000kVA to 5,000kVA (50Hz)

Proven Core Tech

High power density for increased power to weight ratio

Built to international standards

Built by engineers for engineers

Bar wound for ultimate winding performance

Extended lifetime with True Class H+ Insulation

Durable design for mission-critical application

Precise control with digital technology and connectivity

FOUR TIMES THE STRENGTH HIGH VOLTAGE PROTECTION

We design powerful Medium to High Voltage solutions using the latest materials, technologies and processes.

Built today, designed for life.

CAPABILITY

We design, engineer and build alternators in-house. So you get all the information you need direct from the manufacturer and those who know your product best.

SUSTAINABILITY

Enhancing performance efficiencies, to maximise total life cost, focused on providing highly efficient solutions which enable our customers to drive down energy consumption.

RELIABILITY

Using our pedigree and knowledge at component level, we offer a proven and robust design combined with efficient installation and enhanced production. Our global network provides local support to ensure peace of mind where your product is in service.

ACCOUNTABILITY

Dedicated sales and technical teams help you choose and specify the right product and are available with at every stage, from design to production through to testing, installation and operation.



Mecc Alte's Power Products division combines its electromechanical experience and close customer relationships, to offer the latest technologies and materials within its Medium and High Voltage product range.

As pioneers of the True Class H+ Insulation system, we're very proud that this is now accepted as an industry standard.

ProteX Plus includes, as standard:

- PMG
- Digital AVR
- Epoxy resin True Class H Insulation system offering enhanced protection against particle and environmental corrosion
- Stator winding temperature detectors 6xPT100s
- IP23 Ingress Protection
- Anti-condensation heaters
- Regreasable bearings for smooth operating characteristics





Approved and trusted by the industry, our alternators use Class H, VOC-free (volatile organic compound), low viscosity Epoxy resin with glass and mica tapes. This delivers outstanding performance at high temperature, excellent flexibility, thermal, electrical and mechanical properties.

PROTECTION AGAINST THE ELEMENTS













Dust | Humidity | Corrosion | Chemical | Lifecycle | Water

Epoxy Resin Class H Insulation

Stator Winding Temperature Detector **Anti-Condensation** Heaters















FEST AND RIGOUR

It's all in our details

Our in-house testing facilities ensure the integrity and reliability of every product in the X-Type Series.

Every alternator we produce is subjected to a routine test including Static and Dynamic Testing and are recorded and documented by certificates. All our tests are conducted in accordance with IEC EN 60034-1: 2004 Section 9.1 'Routine Tests' and we ensure compliance with all major IEC standards and ISO accreditations for specialist application on land and sea.

Routine static tests include:

- Surge test
- Resistances at cold condition / Insulation resistance + D.A.R
- Polarization Index (PI)
- High-voltage test

Routine dynamic tests include:

- Overspeed for 2 minutes (120%)
- Phase sequence rotation viewed from DE side
- Radial vibration measurement during no load test NDE only for SAE single bearing configuration
- No load losses at unity power factor
- AVR setting and functional test, if standard DER solution, or presetting of Baser DECS

Additional tests are available on request.

WITH YOU AT EVERY STAGE

Our Medium and High Voltage X-Type Series offers a full range of products and enables customers to select the right product for their power demand. Mecc Alte lifecycle services provide flexible options across the lifetime of the product along with upgrade specifications according to the individual application.

This focused ability allows us to design alternators which deliver maximum performance, high efficiencies and improved cost advantages.



Installation and commissioning with site surveys and overhaul

Preventive maintenance

Diagnosis

Technical support and consulting

Expert advice and machine selection for tenders



Service contracts



Spare parts



Repair and refurbishment

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Replacement motors and generators



Training

ЕСО434А М/НИ

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The core DNA of every machine has evolved from over 70 years' technical experience and knowledge. From this proven core, our modular design systems for High Voltage products have been made more compact but the EC043 MV/HV is packed with high specifications and performance features.





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Taking our proven technology and design, it means our customers can easily change up to High Voltage products and gain competitive advantage.



ЕСО474А МУНИ



ЕСО494А МУНИ





All Mecc Alte warranties are supported by our global network of local service and sales centres.

The Power Products division assures its quality and drives excellence across every aspect from design to production.

The division boasts flexible and state-of-the-art production facilities and dedicated technicians striving for excellence in our in-house R&D design centre.

This commitment to excellence brings us ever closer to our customers and enables us to extend complete peace of mind to them with our four-year warranty solution.



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La Promessa di Prestazione Potente The promise of powerful performance

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