mecc alte

POWER FROM WITHIN



TOTAL CONTROL FROM EVERY PERSPECTIVE



INTRODUCING THE MECC ALTE CONTROLLER RANGE

Anyone who knows gensets, knows that Mecc Alte is unrivalled for our knowledge and expertise worldwide. From alternators to controllers, we are the power from within, giving you the ultimate choice of kit that you need, all backed up by the support and impartial advice you only get from the world's leading independent alternator specialists. Take 360° control.

WHY CHOOSE MECC ALTE?

As the world's leading independent alternator specialist, we really understand power solutions and the importance of choosing the right kit for the job. For more than seven decades, quality, reliability and versatility have been key to delivering success for our clients.

With manufacturing and service facilities strategically located worldwide, we're perfectly placed to help you make the most of everything we can offer.

Whatever you need, our people – as always – are here to help you make the right choice. Talk to us. We're here to help you succeed.

RELAX. WE'VE GOT YOU COVERED WITH A 5 YEAR WARRANTY

Our Quality Assurance checks are among the toughest anywhere, including a 48 hour burn-in test to minimise the risk of failures on-site. Because, ultimately, we build our controllers to last and provide you with years of reliable service, whatever the job.

In fact, we're so confident that our controllers provide the quality you need that we back our products with a 5 year warranty against component failure or manufacturing defects. You can see the full details in the warranty statement that comes with each product.

5 YEAR WARRANTY

GENSET CONTROLLERS

GC250 | Compact Auto Start and Automatic Mains Failure (AMF) Controller

A compact AUTO-START and AMF (Automatic Mains Failure) controller for single gensets, with 3 phase mains (utility) sensing and 3 phase generator sensing and monitoring. Interfaced for traditional and J1939 engines.

Configuring inputs, outputs and protections, GC250 can be easily adapted to suit a wide range of applications.



- Size 142 × 112 × 41 mm (Cut-out 118 × 92 mm)
- 4 configurable digital inputs
- Low power 'deep standby' mode

- 4 DIGITAL INPUTS
- 6 DIGITAL OUTPUTS
- 3 ANALOGUE INPUTS
- SMARTLOGIC
- 64 EVENT HISTORY LOGS
- USB
- STAGE V

GC315 | Auto Start and Automatic Mains Failure (AMF) Controller

An extremely powerful single genset controller, with 3 phase (RMS) mains voltage and 3 phase (RMS) generator voltage and current monitoring. Optional communication interfaces with Plus and Link models.



GC315	GC315 Plus	GC315 Link
Integrated J1939 Canbus interface to electronic engines	RJ45 port as Ethernet interface Modbus TCP	GPRS/GPS tracking suited to mobile or rental applications
Size 244 × 178 × 40 mm (Cut-out 218 × 159 mm)	Integrated Modbus RS232, RS485 and Ethernet interface	Built-in global 5G modem with global 2G fall back capacity
8 programmable inputs and outputs		Motion sensor accelerometer and gyroscope

- 8 DIGITAL INPUTS
- 8 DIGITAL OUTPUTS
- 3 ANALOGUE INPUTS
- SMARTLOGIC
- 126 EVENT HISTORY LOGS
- USB
- 16/4 CALENDARS/TIMERS
- RS232 (plus version)
- RS485 (plus version)
- ETHERNET CONNECTION
- GPRS/GPS (link version)
- STAGE V
- 5G READY (link version)

HYBRID CONTROLLERS

Our hybrid controllers – designed to control DC – can monitor the load and battery levels, as well as manage the genset's automatic stop/start.

HS315 | Hybrid System Controller

Designed to minimise generator run time and optimize both fuel consumption and running hours. HS315 features whole site DC voltages and currents, along with the ability to communicate with smart batteries. Available in HS315 and HS315 Link versions.



- Size 244 × 178 × 50 mm (Cut-out 218 × 159 mm)
- 8 AC/DC Voltage measuring inputs + 2 DC Voltage inputs
- Compatible with both electronic CANBUS J1939 and non-electronic engines
- Full 'Battery Management System' (BMS) built in, for maximum battery life and performance
- 32 additional event log
- HS315 Link 5G has built in global 5G modem with global 2G fallback capability, which also utilises the GNSS localisation system (GPS/ GLONASS/BD)

- 12 DIGITAL INPUTS
- 12 DIGITAL OUTPUTS
- 3 ANALOGUE INPUTS
- 1 ANALOGUE OUTPUT
- SMARTLOGIC
- 126 EVENT HISTORY LOGS
- 16/4 CALENDARS/TIMERS
- RS485
- USB/RS232
- USB
- ETHERNET CONNECTION
- STAGE V
- GPRS/GPS (link version)
- PLC LOGIC CONTROL

RN200 | Hybrid System Controller

RN200 is a powerful controller designed for parallel applications including multiple gen-sets operating in parallel with a renewable energy source with or without mains supply.



- Size 244 (W) × 178 (H) × 83 (D) mm (Cut-out 218 × 159mm)
- Additional analogue inputs
- Allows maximum renewable energy penetration in the system
- CANbus interface
- Real Time Clock
- Measurement of the renewable sources

- 18 PROGRAMMABLE DIGITAL OUTPUTS
- 18 + 1 DIGITAL INPUTS
- 4 CONFIGURABLE ANALOGUE INPUTS
- 2 ANALOGUE OUTPUTS
- 537 EVENT HISTORY LOGS
- PLC LOGIC CONTROL
- USB
- RS485
- ETHERNET CONNECTION
- RS232
- SMARTLOGIC

PARALLEL GENSET CONTROLLERS

GC400 | Genset Controller for Parallel Applications

The GC400 is a competitive controller ideally suited for managing different types of parallel applications, especially for MPM (Multiple Prime Mover) and MSB (Multiple Standby) power plants, where the synchronization of several gensets is required.

GC400 Mains version is the perfect controller for those applications where the reverse synchronization is required to avoid any interruption to the supply to the load.

As well as providing local or remote control, a version with built-in GPRS/GPS tracking (GC400 Link) is particularly suited for mobile or rental applications, where asset tracking and monitoring is required.



- Size 244 × 178 × 40 mm (Cut-out 218 × 159 mm)
- 4 alternative configurations
- Up to 16 gensets connected together
- Specific function for French market EJP/EJP-T

- 8 DIGITAL INPUTS
- 8 DIGITAL OUTPUTS
- 3 ANALOGUE INPUTS
- 2 ANALOGUE OUTPUTS
- SMARTLOGIC
- 64 EVENT HISTORY LOGS
- USB
- RS232
- RS485
- ETHERNET CONNECTION
- GPRS/GPS (link version)
- STAGE V
- 5G READY

MC400 | Mains Parallel Controller for Multiple Gensets

The MC400 controller is used where one or more mains supplies are required in parallel with the GC400 generator bus. The MC400 provides both mains monitoring and automatic transfer switch control functions (AMF).



- Size 244 × 178 × 40 mm (Cut-out 218 × 159 mm)
- 4 alternative configurations
- Works with GC400
- Peak shaving / Peak lopping functions
- Parallel up to 16 mains supplies

- 8 DIGITAL INPUTS
- 8 DIGITAL OUTPUTS
- 3 ANALOGUE INPUTS
- 2 ANALOGUE OUTPUTS
- SMARTLOGIC
- 126 EVENT HISTORY LOGS
- USB
- RS485
- ETHERNET CONNECTION

PARALLEL GENSET CONTROLLERS (CONTINUED)

GC600 | Controller for Parallel Gensets

The highly capable GC600 parallel genset controller is extremely well featured for parallel applications; it includes a large PLC logic to ensure customers' onsite application requirements can be fully met. A large full colour display makes these controllers suitable for a wide range of applications while presenting operating status in a clear, easy-to-view format.



- Size 244 × 178 × 83 mm (Cut-out 218 × 159 mm)
- 4 alternative configurations
- Expandable I/O
- Load shedding
- Hardware watchdog
- Smart load management
- Meets EUR Stage V and Tier 4 Final emissions compliance requirement
- Up to 16 gensets connected together
- BDEW Grid code compliant
- Parallel up to 16 mains supplies using MC200
- DNV marine approved versions available on request

- 18 DIGITAL INPUTS
- 18 DIGITAL OUTPUTS
- 6 ANALOGUE INPUTS
- 2 ANALOGUE OUTPUTS
- SMARTLOGIC
- 537 EVENT HISTORY LOGS
- USB
- RS232
- RS485
- ETHERNET CONNECTION
- PLC LOGIC CONTROL
- 16 CALENDERS
- STAGE V
- PWM OUTPUT

DNV

MC200 | Mains Parallel Controller for Multiple Gensets

Designed for use where one or more mains supplies run in parallel with the generator bus. It features a powerful PLC logic to ensure site-specific design details can be accommodated. A large full colour display presents operating status in a clear, easy-to-view format. A generous input and output capability with the ability to add expansion where needed, meaning complex sites can be tackled with ease.



- Size 244 × 178 × 83 mm (Cut-out 218 × 159 mm)
- 4 alternative configurations
- Expandable I/O
- BDEW Grid code compliant
- Peak shaving / Peak lopping function
- EMC conforms to EN61326-14
- Safety built-in conformity to EN61010-1
- DNV marine approved versions available on request

- 18 DIGITAL INPUTS
- 18 DIGITAL OUTPUTS
- 6 ANALOGUE INPUTS
- 2 ANALOGUE OUTPUTS
- SMARTLOGIC
- 537 EVENT HISTORY LOGS
- USB
- RS232
- RS485
- ETHERNET CONNECTION
- PLC LOGIC CONTROL
- 16 CALENDERS

DNV

BTB200 | Bus Tie Breaker Management Controller

A controller with the ability to control a bus tie breaker, for applications where it is necessary to divide the common bus-bars during certain operation conditions.

It manages the synchronization between the two separated halves, based on an input signal, taking into account the number of gensets connected to the two halves.

For complex applications, it is possible to connect on the same CANBUS up to 8 BTB200 bus tie breaker controllers, and up to 16 MC200 mains controllers and up to 16 GC600 or 24 DST4602 Evolution genset controllers.



- Size 244 × 178 × 83 mm (Cut-out 218 × 159 mm)
- 4 alternative configurations
- Automatic or manual selection of the synchronization direction
- Insulated CANBUS interface
- Easy integration with remote monitoring facilities and building management systems

- 18 DIGITAL INPUTS
- 18 DIGITAL OUTPUTS
- 6 ANALOGUE INPUTS
- 2 ANALOGUE OUTPUTS
- SMARTLOGIC
- 537 EVENT HISTORY LOGS
- USB
- RS232
- RS485
- ETHERNET CONNECTION
- 16 CALENDERS



DC CONTROLLERS

DC250 | Controller for DC Lighting Tower and other DC Applications

Dedicated lighting tower functions - designed with the lighting towers applications in mind, the DC250 features dedicated functions for lamp, mast and run.



DC monitor

Monitors DC output to the lead

Integrated DC metering

DC250 has dedicated pages to display DC volts and DC current

SMARTLogic

Dedicated logic memory for added flexibility and creation on user custom functions

- 4 DIGITAL INPUTS
- 10 DIGITAL OUTPUTS
- 3 ANALOGUE INPUTS
- ENGINE AND DC GENERATOR PROTECTION
- STAGE V
- RS485
- J1939 CANbus
- VARIABLE SPEED
- INDIVIDUAL LAMP CONTROL/LAMP FAILURE DETECTION

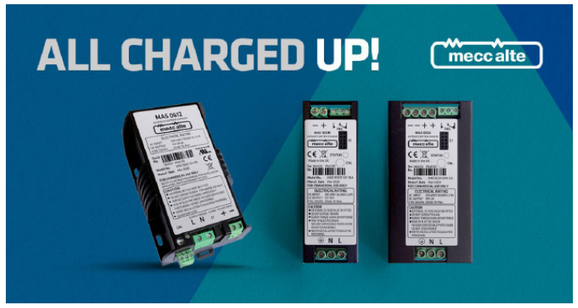
DCD | Dynamic Controller Design

DDS
Dynamic Data Support

The Mecc Alte range of controllers are now available with a customisable controller panel which can be modified to allow you to create your own unique design by adding a logo and selecting any colour of choice. The dynamic controller design (DCD) options within the configuration tool allows you to add or delete certain elements, along with a selection of different icon sets.

BATTERY CHARGERS

Meet the Range



The Mecc Alte range of automatlc battery chargers provide a cost effective solution to most industrial battery charging requirements. Utilising the latest high efficiency switch-mode technology and micro-processor control, the range is suitable for charging most sealed or flooded batteries and is easily calibrated by the end user to suit the battery type. The multi-stage intelligent charging characteristic ensures accurate and efficient battery charging and is designed for permanent connection to the batteries maintaining them in a fully charged condition without overcharging.

Designed and manufactured in the UK, with a focus on quality and long lasting performance; our range of battery chargers includes a variety of currents in either 12v or 24v systems so you can choose the perfect model for your application or industry.

uCharge

- **MAS0612R** DC output voltage 12 | DC output current 6
- **MAS0324** DC output voltage 24 | DC output current 3
- **MAS0324R** DC output voltage 24 | DC output current 3

sCharge

- **MAS1012R** DC output voltage 12 | DC output current 10
- **MAS0524R** DC output voltage 24 | DC output current 5

fCharge

- **MAS1024R** DC output voltage 24 | DC output current 10

SmartCharge

- **MAS2024R** DC output voltage 24 | DC output current 20

HybridCharge 48V

- **MAS20481012R** DC output voltage 12 | DC output current 10

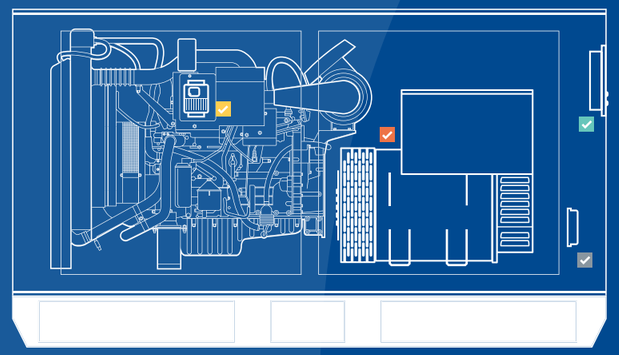
MADE IN THE UK

- MULTI-STAGE CHARGING
- EXCEPTIONAL LINE REGULATION
- LOW DC VOLTAGE ALARM
- HIGH DC VOLTAGE ALARM
- OVER TEMPERATURE PROTECTION
- EFFICIENCY
- REVERSE BATTERY PROTECTION
- LOW RIPPLE OUTPUT

THE EASY ZONE.

All the kit you need.
All in one place.
All in one box.

- Alternator
- Controller
- Governor (Actuator)
- Battery Charger



THE ONE WAY TO MAKE LIFE EASIER.

We've taken the hard work out of complex sourcing for alternator, battery and controller components for your hybrid or industrial gensets.

You get high grade, precision-engineered, smart components that are proven worldwide with access to smart link integration through a single source with TheOne.

Instead of juggling different suppliers, multiple lead times and processing tons of paperwork, TheOne from Mecc Alte gets it all done in one easy order.

All of which makes it easier for you to innovate, create new opportunities, and bring product to market more quickly.

Whatever you're looking for, Mecc Alte has TheOne you need.

WORLD BEATING DIGITAL GENERATION TECHNOLOGY.

All Mecc Alte Industrial alternators are fitted with digital system upgrades as standard.

WHY GO DIGITAL?

- Technically more advanced digital AVRs offer greater precision, performance insight and alarm capabilities
- Guaranteed performance and accurate voltage setting to power engine efficiency
- Instant access and real-time data via a smartphone app
- Monitor analytics and performance data to diagnose faults quickly and more accurately
- Safer maintenance procedures for on-site technicians through the smartphone app as there is no need to open the alternator cover
- Physical potentiometers can be disabled so changes are only possible via controller HMI or PC connection
- Directly view and change settings via the controller HMI 'out of the box'
- A total of 14 AVR detected alarm conditions are annunciate on the genset controller screen. In addition the on board alarm log can be viewed for deep analysis of faults
- Specific features such as soft start or load acceptance mode can be selected from the genset controller, to make the generator more suitable for the application

COMING SOON

M2K M2K[S] M3K M3K[HD] M3K[SHD] APP LINK CONNECTIVITY

DIGITAL GENERATION

DIGITAL AVR
Intelligent digital voltage regulation system

SELF SETTING STABILITY
Auto tuning stability, automatically adjusting to application requirement

POWER BOOST SYSTEM
MAUX - + 300% 20 second auxiliary system

ALARM CAPABILITIES
Greater precision with performance insights

CUSTOMISABLE SOFT START
Slow build-up line voltage settings

LAMS
Load Acceptance Module System to control engine demand

DIGITAL AVR

(AUTOMATIC VOLTAGE REGULATOR)

Our digital alternators are designed and proven to deliver power, guaranteed uptime and complete peace of mind for all power applications from 1-5,000 kVA .

Mecc Alte Digital AVR's (S) link directly with many of the Mecc Alte genset controllers and allows the customer to view AVR alarm condition for better fault diagnosis. In addition the operating state can be viewed and specific AVR settings can be changed directly on the controller or even in the field by a remote connection.

A fully integrated Digital CANbus Series solution which is a new system that integrates power management and monitoring in one single platform is already incorporated. When pairing a Mecc Alte Digital alternator with a Mecc Alte controller an incredibly powerful solution is realised... providing simple safe access to all essential genset components.

SMART
LINK CONNECTIVITY

This represents a totally new solution for Mecc Alte and Power Generation.

With our digital AVR (Automatic Voltage Regulator), it is possible to control and adjust the range of voltage automatically through our compatibility software. With a wide variety of characteristics for different applications, we're sure to have digital alternator technology with Automatic Voltage Regulator that satisfies your company's needs, no matter your industry.

This voltage regulator is fully digital controlled and is fitted as standard across all our ECO and ECP models. With our digital AVRs, it is possible to control and adjust the range of voltage electrically through our compatibility software. In addition, password protection can be set to avoid any possible problems that could be caused by less skilled personnel.

The digital MVAR range offers an intelligent brain providing a cohesive alternator with wiring, digital devices, stator, actuator and many more components operating as one complete alternator to optimize your power generation system.

And, in one simple view, via our Mecc Alte App, you can access smart metrics enabling you to manage the performance of the alternator to achieve new levels of production and value.



GOVERNORS

GOVERNORS AMERICA CORP.®

Governors America Corp. (GAC) is a leading provider of innovative engine control products worldwide. Typical applications include both natural gas and diesel engine controls for generator sets, material handling equipment, marine propulsion, mining, locomotives, military/government/aerospace, and off-highway applications.

Their technically advanced line of electronic governing and fuel control systems provide solutions for engine control systems with a range in cost and complexity from single-speed isochronous governors to sophisticated multi-engine load-sharing/power-control systems, full authority drive-by-wire systems, locomotive diesel electric controls, full engine generator military control systems and a great variety of complementing governing and control system accessories.

GAC incorporate advanced technologies into product development. The technologies range from enhanced analog controls to advanced microprocessor-based control systems. The products provide the best value available solutions in the marketplace and use the latest in electronic surface-mount and through-hole manufacturing methods and equipment. The mechanical assembly process uses the latest in automatic and semi-automatic production methods and tools, augmented by GAC's full array of in-house CNC equipment that ensures high standards of quality and just-in-time manufacturing methods.

Mecc Alte are authorised distributors for the GAC products which means you can source all the kit you need all in one place.



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Totally independent.

E309573

INSULATION SYSTEM

LISTED

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