mecc alte

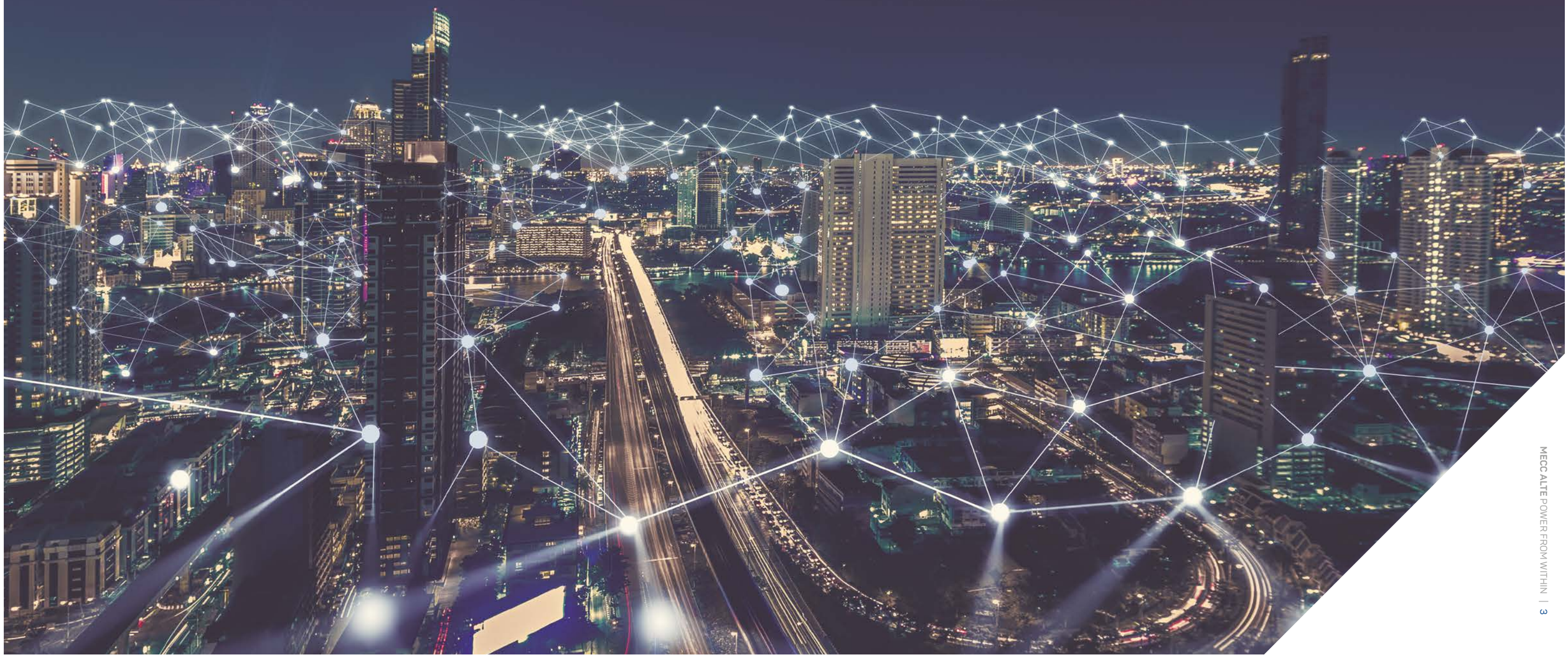
POWER FROM WITHIN



TOTAL CONTROL FROM EVERY PERSPECTIVE

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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. Talk to Mecc Alte.

WHY CHOOSE MECC ALTE?

Mecc Alte never stands still. Even after decades of success, we continue to evolve.

We are a worldwide group with manufacturing plants in Italy, the UK, China and India, focused on the production of world-class solutions ranging from industrial alternators (1-5000kVA), as well as controllers, battery chargers, governors and other key components.

Based on seven decades of successful development and growth, today's Mecc Alte is meeting today's need for agile, end-to-end solutions that are designed for a rapidly evolving energy landscape.

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

Our Quality Assurance checks are among the toughest anywhere. Because, ultimately, we build to last - providing 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

TOGETHER WE POWER THE WORLD

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
- 4 ANALOGUE INPUTS (can also be used as Digital)
- AND/OR Custom logic
- 64 EVENT HISTORY LOGS
- USB
- TIER 4 STAGE V
- FRONT FACE OR PC CONFIGURABLE

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
- 4 ANALOGUE INPUTS (can also be used as Digital)
- AND/OR LOGIC + Timers
- FAST/SLOW ANALOGUE LOGGING
- 126 EVENT HISTORY LOGS
- TIER 4 STAGE V
- FRONT FACE OR PC CONFIGURABLE
- RS485 (Plus or Link version)
- ETHERNET CONNECTION (Plus version)
- RS232 (Plus or Link version)
- 16 CALENDARS
- 5G READY (Link version)
- GPRS/GPS (Link version)
- IP65 PROTECTION (Gasket included)
- USB

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 synchronisation of several gensets is required.

GC400 Mains version is the perfect controller for those applications where the reverse synchronisation 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
- Smart load management modes

- 8 DIGITAL INPUTS
- 8 DIGITAL OUTPUTS
- 4 ANALOGUE INPUTS (can also be used as Digital)
- 2 ANALOGUE OUTPUTS
- FAST/SLOW ANALOGUE LOGGING
- 124 EVENT HISTORY LOGS
- TIER 4 STAGE V
- AND/OR LOGIC + Timers
- RS485
- ETHERNET CONNECTION
- RS232
- USB
- 5G READY (Link version)
- GPRS/GPS (Link version)
- FRONT FACE OR PC CONFIGURABLE
- IP65 PROTECTION (Gasket included)

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
- 4 ANALOGUE INPUTS (can also be used as Digital)
- 2 ANALOGUE OUTPUTS
- FAST/SLOW ANALOGUE LOGGING
- 126 EVENT HISTORY LOGS
- USB
- RS485
- ETHERNET CONNECTION
- AND/OR LOGIC + Timers
- FRONT FACE OR PC CONFIGURABLE
- IP65 PROTECTION (Gasket included)

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
- Also available for Marine applications with DNV certification

- 18 DIGITAL INPUTS
- 18 DIGITAL OUTPUTS
- 7 ANALOGUE INPUTS (can also be used as Digital)
- 2 ANALOGUE OUTPUTS
- FAST/SLOW ANALOGUE LOGGING
- 537 EVENT HISTORY LOGS
- TIER 4 STAGE V
- AND/OR LOGIC + Timers
- ETHERNET CONNECTION
- RS485
- RS232
- USB
- 16 CALENDARS
- FUNCTION BLOCK PLC
- FRONT FACE OR PC CONFIGURABLE
- SHARED I/O (256 DIGITAL / 32 ANALOGUE)



PARALLEL GENSET CONTROLLERS

MC200 | Mains Parallel Controller for Multiple Gensets

The MC200 is 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
- Peak shaving / Peak lopping function
- BDEW Grid code compliant
- EMC conforms to EN61326-14
- Safety built-in conformity to EN61010-1
- Also available for Marine applications with DNV certification

- **18 DIGITAL INPUTS**
- **18 DIGITAL OUTPUTS**
- **7 ANALOGUE INPUTS** (can also be used as Digital)
- **2 ANALOGUE OUTPUTS**
- **FAST/SLOW ANALOGUE LOGGING**
- **537 EVENT HISTORY LOGS**
- **USB**
- **RS232**
- **ETHERNET CONNECTION**
- **RS485**
- **FUNCTION BLOCK PLC**
- **SHARED I/O** 256 DIGITAL / 32 ANALOGUE

BTB200 | Bus Tie Breaker Management Controller

The BTB200 provides 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 synchronisation 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 synchronisation direction
- Insulated CANBUS interface
- Easy integration with remote monitoring facilities and building management systems

- **18 DIGITAL INPUTS**
- **18 DIGITAL OUTPUTS**
- **7 ANALOGUE INPUTS** (can also be used as Digital)
- **2 ANALOGUE OUTPUTS**
- **FAST/SLOW ANALOGUE LOGGING**
- **537 EVENT HISTORY LOGS**
- **USB**
- **RS232**
- **ETHERNET CONNECTION**
- **RS485**
- **FUNCTION BLOCK PLC**
- **SHARED I/O** 256 DIGITAL / 32 ANALOGUE

ADVANCED PARALLELING CONTROLLERS

GC800 | High-Level Paralleling Controller

The GC800 High-Level Paralleling Controller offers advanced features and protection for Load Share between generators and/or mains in critical situations.

The split-arrangement (HMI + Control-Box) design is built with a metal enclosure and waterproof protection for harsh outdoor environments. Powerful ARM Cortex processors make the 10.1" Capacitive Multi-Touch Screen HMI highly responsive for various pinch gestures even when wearing gloves, and features hot redundancy with automatic takeover, and extensive I/O capabilities with CANBUS sharing.

In addition, the GC800 provides intelligent load management, true RMS measurement with 14-bit conversion, a dual crank battery system, AFR Control, a powerful PLC to meet all challenges, and multiple communication protocols (Modbus TCP & RTU, SNMP, NTP) including Unicode multi-language support.

The GC800 also offers comprehensive engine and electrical protections and supports both synchronous and asynchronous generators. In addition, the GC800 provides 'Closure Before Excitation' functionality as an effective solution where mains failure could be disruptive for critical applications (banks, hospitals, data centres).

With its flexible design and future-proof technology, the GC800 is an excellent solution for complex power management applications that require reliable paralleling and load sharing.





- SCM 252 × 187 × 85 mm | HMI 270 × 202 × 35 mm
- Up to 31 x generators in parallel
- Powerful PLC system with large memory capacity
- CAT. III: 690V (Ph-Ph), CAT. IV: 520VAC (Ph-Ph)
- CAN J1939 or MDEC
- True RMS voltage measures
- 4-stage power derating on selectable conditions
- Extensive logging capability (with large memory)
- Dynamic grid support
- 173 x logical input and 87 logical output functions
- Remote screen options

- **20 DIGITAL INPUTS**
- **16 DIGITAL OUTPUTS** (inclu 6 relays)
- **6 ANALOGUE INPUTS** (can also be used as Digital)
- **2 ANALOGUE OUTPUTS**
- **FAST/SLOW ANALOGUE LOGGING**
- **778 EVENT HISTORY LOGS**
- **AND/OR LOGIC + TIMERS**
- **FUNCTION BLOCK PLC**
- **3 ETHERNET CONNECTIONS**
- **RS485/RS422**
- **RS232**
- **3 USB PORTS**
- **16 CALENDARS**
- **TIER 4 STAGE V**
- **FRONT FACE OR PC CONFIGURABLE**
- **HOT REDUNDANCY**

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.

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 DIGITAL INPUTS**
- **18 DIGITAL OUTPUTS**
- **7 ANALOGUE INPUTS** (can also be used as Digital)
- **2 ANALOGUE OUTPUTS**
- **FAST/SLOW ANALOGUE LOGGING**
- **537 EVENT HISTORY LOGS**
- **AND/OR LOGIC + Timers**
- **FUNCTION BLOCK PLC**
- **ETHERNET CONNECTION**
- **RS485**
- **RS232**
- **USB**
- **16 CALENDARS**
- **FRONT FACE OR PC CONFIGURABLE**
- **IP65 PROTECTION** (Gasket included)
- **SHARED I/O** 256 DIGITAL / 32 ANALOGUE

HS315 | Hybrid System Controller

Designed to minimise generator run time and optimise 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**
- **4 ANALOGUE INPUTS** (can also be used as Digital)
- **1 ANALOGUE OUTPUT**
- **FAST/SLOW ANALOGUE LOGGING**
- **126 EVENT HISTORY LOGS**
- **AND/OR LOGIC + Timers**
- **FUNCTION BLOCK PLC**
- **ETHERNET CONNECTION**
- **RS485**
- **RS232**
- **USB**
- **16 CALENDARS**
- **FRONT FACE OR PC CONFIGURABLE**
- **TIER 4 STAGE V**
- **LAMP CONTROL/ RUN**

DC CONTROLLERS

DC250 | Controller for DC Lighting Tower and other DC Applications

The DC250 is a versatile multi-application DC controller with a set of features suitable for DC generator, DC lighting tower or engine drive (pumps, compressors etc) applications.

Monitoring the DC output and providing full engine protection and instrumentation, it has dedicated DC lighting tower functions built-in; including auto-run functionality, plus sequential lamp control for up to 8 lights – with lamp failure detection.

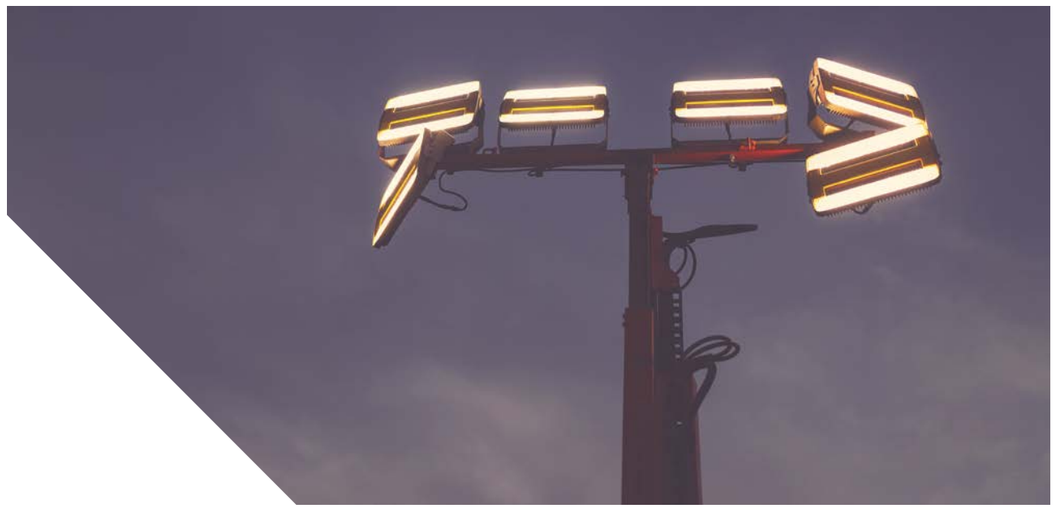
For the DC generator application, an integrated speed control via J1939 CANBUS (to electronic governors) gives closed-loop responses for RPM to maintain the measured PMG alternator DC output voltage. Full DC voltage and current sensing/ protections are included.

In pump, compressor or bulk charging applications, the DC250 features a ramped and tunable closed-loop speed control, to maintain a desired setpoint, such as read back from a pressure transducer or current sensor.



- Small size: 142 × 112 × 41 mm
- Start/stop triggers from analogue values
- One analogue channel can read 0-60VDC
- Integrated bulk fuel transfer logic
- Fast & slow value datalogging
- Real time clock (with Rechargeable Lithium battery)
- Speed reference via W+ or MPU input

- **4 DIGITAL INPUTS**
- **10 DIGITAL OUTPUTS**
- **4 ANALOGUE INPUTS** (can also be used as Digital)
- **AND/OR Custom Logic**
- **64 EVENT HISTORY LOGS**
- **ENGINE AND DC GENERATOR PROTECTION**
- **TIER 4 STAGE V**
- **LAMP CONTROL/ RUN**
- **RS485**
- **USB**
- **FRONT FACE OR PC CONFIGURABLE**
- **IP65 PROTECTION** (Gasket included)



PROTECTION RELAYS

MP250 | Mains Protection Relay

The MP250 is an advanced Mains Protection Relay that continuously monitors mains parameters. It detects a mains failure or instability during a parallel operation – with either gensets or renewable sources - to command two separate breaker functions.

It features multi-stage protection for under/over voltages, under/over frequency, rate of change of frequency (ROCOF), Vector Jump as well as Symmetrical Components, Phase and Unbalanced Voltages.

The MP250 is fully configurable and complies with various Grid Codes to meet the Regulations and Paralleling Requirements of different countries. It is compatible with G59/3 and G99.

With its LCD display, configurable protections, and flexible parameter settings, the MP250 delivers reliable mains monitoring and protection for generator-mains and/or inverter-mains parallel operations.



- Real time clock (with rechargeable Lithium battery)
- Fast and slow analogue logs and 'log on event'
- Password protections on configuration
- In-built alarm sounder
- Size: 141 × 113 × 39 mm
- 5-stage under & over-voltage protections
- 2-stage under & over-frequency protections
- 3-stage ROCOF protections and vector shift

- **4 DIGITAL INPUTS**
- **6 DIGITAL OUTPUTS**
- **FRONT FACE OR PC CONFIGURABLE**
- **AND/OR LOGIC + Timers**
- **EVENT HISTORY LOGS**
- **USB**
- **IP65 PROTECTION** (Gasket included)



ATS CONTROLLERS

ATS115 PLUS | Automatic Transfer Switchover Controller

The ATS115 Plus is a highly capable automatic transfer switch controller between two supply sources. These can be Mains/Mains or, Mains/Generator or, Generator/Generator with dedicated start command for each source.



- Size 244 × 178 × 40 mm
- True RMS Cat IV voltage measures
- Extensive protection settings
- Remote control of ATS functions from communication ports
- Option to integrate with GSM/GPRS/GPS modem (CL100)
- Peak lopping capability with automatic triggering of change-over through a load CT fitting
- Generator Test Modes

- **8 DIGITAL INPUTS**
- **8 DIGITAL OUTPUTS**
- **4 ANALOGUE INPUTS** (can also be used as Digital)
- **USB**
- **EVENT HISTORY LOGS**
- **FAST/SLOW ANALOGUE LOGGING**
- **16 CALENDARS**
- **AND/OR LOGIC + Timers**
- **RS485**
- **ETHERNET CONNECTION**
- **RS232**
- **FRONT FACE OR PC CONFIGURABLE**



COMMUNICATIONS DEVICES

SMARTCLOUD

Mecc Alte has a choice of Communications Modules that enable remote monitoring for Mecc Alte Genset and ATS Controllers through the SmartCloud remote monitoring system.

As well as Mecc Alte's range of products, the CL100 and DANCE modules support third-party devices and genset controllers via MODBUS RS232/RS485, digital inputs, 0-5V analogue, or a direct CAN connection to electronic ECU engines.

Internal memory stores data and broadcasts periodically to SMARTCLOUD servers. In case of a temporary network disconnection, intelligent data storage algorithms are activated to save data and transmit once the connection is restored.

CL100 | GSM/LTE Cat.M1/Nb-IoT and GNSS Interface

CL100 uses the GSM/LTE/5G mobile phone network and GPS satellites to detect movement and provide data to track the location of your assets. It also features a Global Navigation Satellite System module (GNSS) and internal accelerometer and gyroscope.

CL100 can also be used to communicate through external SCADA systems, Mecc Alte Smartech Supervisor3 SCADA software, Mecc Alte SmartCloud monitoring and control platform, and SMS messaging.



- Size 106 x 90.5 x 62 mm
- Ability to operate as standalone unit sending SMS alarms/or receiving SMS commands
- In-built sleep mode - wake on events, movement, time, minimum voltage, etc.
- Intergrated tank level and control logic

8 DIGITAL INPUTS | **2 DIGITAL OUTPUTS** | **1 ANALOGUE INPUT** | **RS485** | **RS232** | **USB**

DANCE | Ethernet Modbus TCP/IP Communication Device

DANCE enables remote monitoring via Ethernet TCP/IP.

As with CL100, DANCE can communicate through external SCADA systems, Mecc Alte Smartech Supervisor3 SCADA software, Mecc Alte SmartCloud monitoring and control platform, and SMS messaging. In addition, it also offers an internal WebServer for a simple Scada.



- Size 106 x 90.5 x 62 mm
- Datalogging to USB drive
- SNMP Protocol for events, alarms, warnings, etc.
- Real time clock with battery back-up
- Easily programmed using BoardPRG

8 DIGITAL INPUTS | **2 DIGITAL OUTPUTS** | **2 ANALOGUE INPUTS** (can also be used as Digital) | **ETHERNET CONNECTION** | **RS485** | **RS232** | **1 x USB 1 x USB MINI**



REMOTE DISPLAYS

GC315 AND GC600 | Remote Control Heads

Selected generator controllers are available with firmware to allow a second controller to act as a remote control and display head. Mecc Alte has a choice of remote control heads that perform this role.



GC315



GC600

DST4602 REMOTE | Additional Remote Display

A remote control and display HMI for the DST4602 Evolution controller, the DST4602 Remote features a 7-inch (177.8mm) full colour TFT display that shares the same functionality and controls as the main unit.



- Size: 260 × 202 × 33 mm
- Up to 5 x units can be connected to one main controller (via Ethernet) or 1 x unit via RS485
- Internal horn
- Configurable digital output (3 terminal 30VDC 1A) for use with beacons or siren

1 DIGITAL OUTPUT | ETHERNET CONNECTION | RS485



ADVANCED PARALLELING EXTENSION

CANBRIDGE | Multifunction PCMBus Device

For installation on the inter-controller PCMBus, the CANBRIDGE adds multiple extended applications. The CANBRIDGE can be used as:

A Repeater
The maximum distance of the standard mode PCMBus is 125M. When greater distances are required, the CANBRIDGE can be used as a Repeater, extending and boosting the communication network.

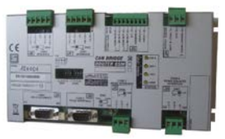
A PCMBus Isolator
CANBRIDGE can isolate internal generator group communications, so only information useful for the whole power management system is transmitted on the common external network. This reduces the load on the common external PCMBus, speeds up communications and ensures reliability. Up to 24 CANBRIDGE devices can be connected to the same CAN line.

Dual-channel/Redundant CAN enabler
Where a dual-channel/redundant CAN capability is required, CANBRIDGE expansion modules enable the CANBRIDGE to detect the presence of the 2nd PCMBus network. If one of the networks fail, the system automatically continues to operate completely unhindered. Alarms programmed into digital outputs alert you to the issue.

PCMBus Tie
Via digital input, the CANBRIDGE can merge or separate the communications of groups of controllers, thus controlling the power management groups of multiple generators if for example, an external Bus-Tie was to be used.

Via Ethernet (IEC60870-5-104), the CANBRIDGE operates as a Gateway to the PCMBus inter-controller CAN network. Used with a SCADA system, all data obtained by the CANBRIDGE is available, along with commands from the SCADA system to control the power system.

The CANBRIDGE also has the ability to communicate with MeccAlte expansion I/O modules directly connected to the RS485 port, further boosting the I/O of the unit.



- 233 × 110 × 47 mm
- Easily configured using BoardPRG software
- Real Time Clock (with the expansion module)
- Expansion module adds storage of data with 90 day memory

2 DIGITAL INPUTS | 2 DIGITAL OUTPUTS | ETHERNET CONNECTION | RS485 | RS232 | USB

EXPANSION DEVICES

I/O EXPANSION MODULES
CONTROLLERS AND ENGINE ACCESSORIES

DITEL CPU | 16 x Digital Input



With 16 digital inputs on board, connects to the Mecc Alte controller via the CANbus. It can also be operated as a standalone module providing status of its inputs via MODBUS to external systems such as Supervisor3 or other SCADA platforms.

DITEL OUTPUT | 8 x Relay Input



An output expansion module of the DITEL CPU, the module provides 8 x volt-free 1A change-over relay output channels. 12V DC or 24V DC powered versions are available.

The module can be used as a standalone system when paired with the DITEL CPU.

DIVIT | 4 x Analogue Input



DIVIT is an analogue input module with 4 galvanically insulated input channels. These are capable of reading 0-5V, 0-10V, 0-10mA or 0-20mA with either active or passive sensors. The DIVIT connects to the Mecc Alte controller via the CANbus. It can also be directly paired with the DITEL Output module and provide alarm contacts independent of an outside system.

DANOUT | 4 x Analogue Output



DANOUT is an analogue output module with 4 x galvanically insulated output channels. These are capable of providing 0-5V, 0-10V, 0-10mA or 0-20mA sources. Integrates with either Mecc Alte controllers or external systems via the CANbus.

DITHERM | 3 x Thermocouple Input



DITHERM can read 3 thermocouples and, if required, read different types on each channel. Type B,R,S,J,E,N,T sensors are supported. An onboard programmable alarm contact is also fitted.

DIGRIN | 3 x PT100 Input



DIGRIN can read 3 PT100 sensors for bearing or winding temperatures. DIGRIN is connected to the Mecc Alte Controller via the CANbus. With J1939 CAN, 2x DIGRIN units could support up to 5 x PT100s, or up to 48 x PT100s when using 16 x DIGRIN modules. DIGRIN connects to the Mecc Alte Controller via the CANbus.

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.

MADE IN
THE UK





uCharge

MAS0612
DC output voltage 12 | DC output current 6

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



fCharge

MAS1024R
DC output voltage 24 | DC output current 10



SmartCharge

MAS2024R
DC output voltage 24 | DC output current 20



sCharge

MAS1012R
DC output voltage 12 | DC output current 10

MA0524R
DC output voltage 24 | DC output current 5



HybridCharge 48V

MAS20481012R
DC output voltage 12 | DC output current 10



pCharge

YJMAP0612
DC output voltage 12 | DC output current 6

YJMAP0324
DC output voltage 24 | DC output current 3

YJMAP0524
DC output voltage 24 | DC output current 5

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

GOVERNORS AMERICA CORP

GOVERNORS, ACTUATORS, SPEED CONTROLLERS AND ENGINE ACCESSORIES

Governors America Corp. (GAC) is a leading provider of innovative engine control products worldwide.

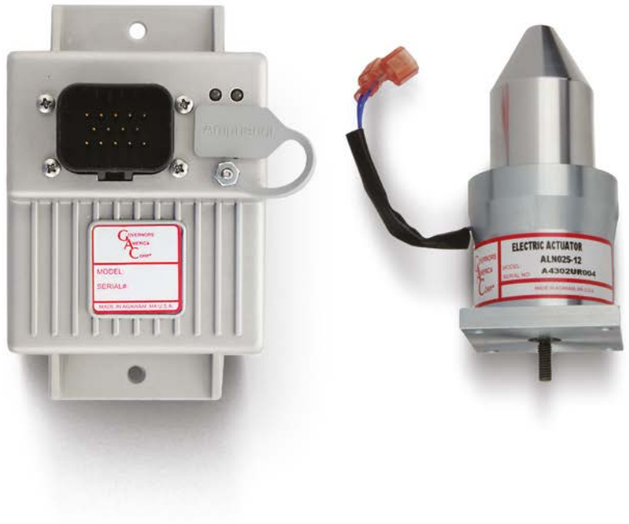
Typical applications include both natural gas and diesel engine controls for generator sets, material handling equipment, marine propulsion, mining, locomotives, military/government/aerospace, and off highway applications.

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 incorporates advanced technologies into product development. The technologies range from enhanced analogue 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 semiautomatic 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.



GOVERNORS AMERICA CORP.®
PROVIDING SOLUTIONS SINCE 1986

DYNAMIC CONTROLLER DESIGN

DCD
DYNAMIC CONTROLLER DESIGN

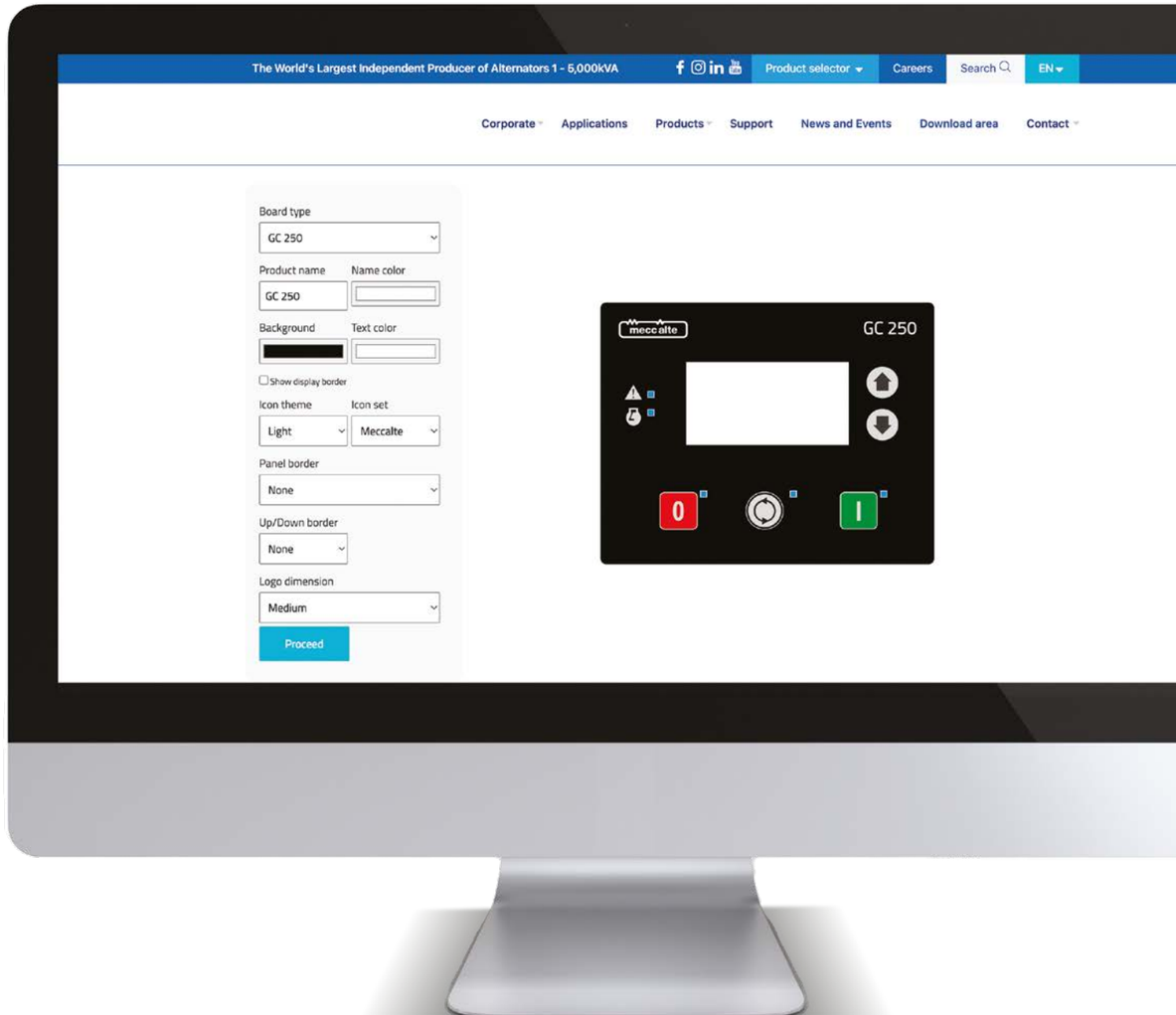
Mecc Alte Controllers are available with a customisable control panel. So, you can add your own logo and choice of colours. Dynamic Controller Design options are available with our Configuration Tool, which also enables you to add or delete different options and select from various icon sets.

Our experts will check your choices and verify the design can be produced by the label printing process.

A Mecc Alte representative will then contact you directly to further discuss your unique controller.



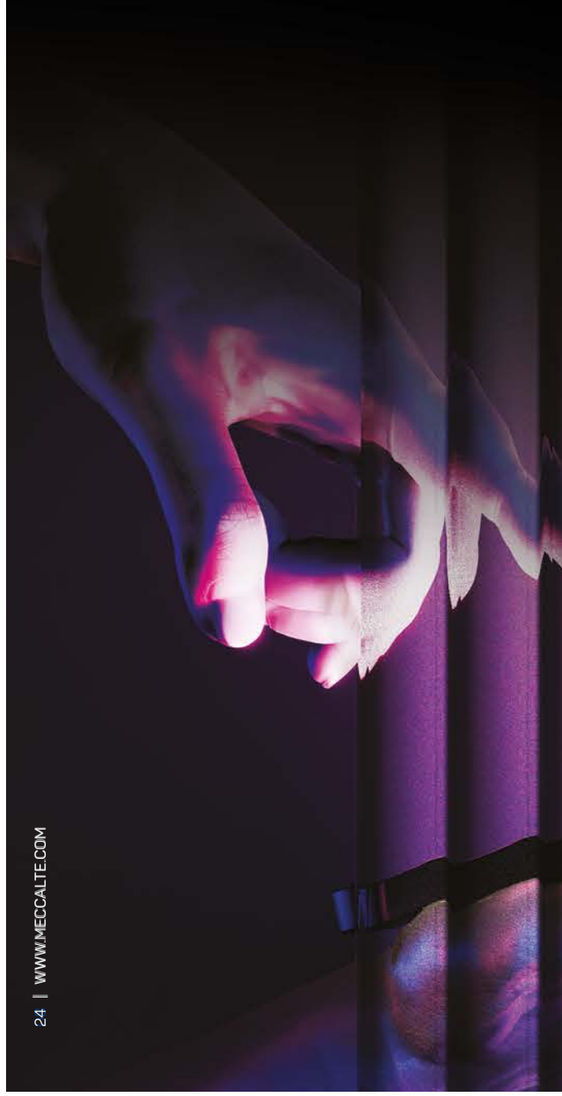
Dynamic Controller Design



mecc alte

SMARTECH

SMARTER POWER GENERATION MADE EASIER, DELIVERED BY PEOPLE YOU KNOW YOU CAN TRUST.



Mecc Alte SMARTECH helps our customers to thrive in a transformational world. We achieve this by providing technologies that enable the needs of renewable and traditional energy sources to be intelligently balanced, including genset controllers, AVR (Automatic Voltage Regulator) technologies and other innovations.

One of the key areas of focus for Meccalte Smartech is the seamless integration of engines, alternator AVR, and Battery Energy Storage Systems (BESS). By developing advanced solutions that facilitate connectivity and communication between these components, we aim to optimise the performance and efficiency of power generation systems.

SMARTCLOUD

SmartCloud is a cloud based remote monitoring service. Allowing users to connect multiple controllers or devices to their account and monitor them from anywhere using a simple internet browser.

SMARTLINK

SmartLink is a cyber secure connection between the controller and the Mecc Alte server or software. It creates an encrypted link from the controller which prevents unauthorised access to the data.

It also helps to negotiate firewalls and negates the need for public or static IP addresses.

CLOUDLINK

The Cloudlink system ensures that this link is Cybersecure with modern encryption routines employed between the device and the server. Cloudlink also simplifies the whole connection process negating the need for public or static IP addresses and will also help the system navigate firewalls.

MECC ALTE APP

The Mecc Alte Smartready 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 optimise 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.

DIGITAL AVR

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 (Automatic Voltage Regulators) 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 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.

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

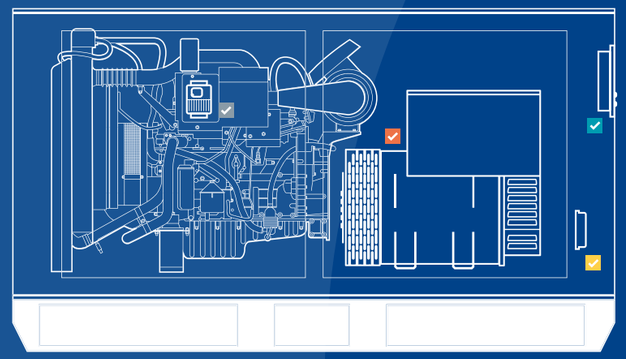
With our digital AVR (Automatic Voltage Regulator), it is possible to control and adjust the range of voltage automatically through our compatibility software. With a wide variety of characteristics for different applications, we're sure to have digital alternator technology with Automatic Voltage Regulator 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 EASY ZONE.

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

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



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 LEADING 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

M2K M2K S M3K M3K HD M3K SHD APP LINK CONNECTIVITY

DIGITAL GENERATION

DIGITAL AVR
Intelligent digital voltage regulation system

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

CUSTOMISABLE SOFT START
Slow build-up line voltage settings

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

12 WIRE
Allowing the maximum flexibility with multiple voltage options

LAMS
Load Acceptance Module System to control engine demand

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mecc alte

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Totally focused.
Totally independent.

E309573

INSULATION SYSTEM

LISTED

05/2025 (v1)