



**“OHMEGA” SERIES  
EMERGENCY POWER SYSTEMS COMBINATIONS**

OHMEGA Energy GmbH

Keeping operations running safely – even in the case of grid faults or outages ...



ISO-standardised container



Soundproofed container



Mobile power generator



## SYSTEM DESCRIPTION

Thanks to an extensive range of expansion options, the "OHMEGA" series of emergency power systems represent a state-of-the-art, future-proof solution for a wide range of customer-specific applications.

The range includes emergency power supplies in ISO-standardised containers, in soundproofed containers and mobile power generators. Engines, generators and control systems from a range of well-known manufacturers can be individually combined. In-house steel and manifold construction enables a wide range of different design options.

We are happy to help our customers and can provide support from personal consultation in advance of an investment decision, through to customised design and professional execution and documentation. System-specific, preventive maintenance work complements our range of services so that we can identify potential errors promptly, before cost-intensive failures have the chance to happen.

We have interdisciplinary expertise, thus giving us the skills needed to integrate our emergency power supplies into new or existing power supply facilities.

The "OHMEGA" series has a power range of up to 2000 kVA. All devices are produced in accordance with the most recent standards and regulations.

We are proud to be able to look back at the experience gained from numerous successful projects in both new-build and modernisation projects.

### BENEFITS

- ✦ Customised control cabinets with connection options
- ✦ Wide range of combination options from different engine, generator and control system manufacturers
- ✦ Steel construction, electrostatic powder coating and paint shop in our own plant
- ✦ High quality finish down to the very last detail
- ✦ Factory acceptance test (FAT) with load tests
- ✦ Prestigious references in a wide range of industries
- ✦ Interdisciplinary experience in both new-build and modernisation projects

### AREAS OF APPLICATION

- ✦ Medical facilities and areas
- ✦ Defence and civil protection
- ✦ Infrastructure and energy suppliers
- ✦ Data centres
- ✦ Oil and gas
- ✦ Industry



"OHMEGA" 250 kVA emergency power supply



60 kVA mobile power generator



Transfer cabinet

## SYSTEM FEATURES

### STRUCTURE

System housings are made of powder-coated sheet steel, which can also be galvanised. Housings are coated in RAL 7016 colour as standard, but other colours can be selected. The noise level can be reduced to 45 dB(A)/7 m with adapted sound insulation. The tank system can be integrated into the base frame or designed as an external unit.

### COMBUSTION ENGINES

Naturally aspirated engines or turbocharged engines are available, with and without direct injection. The electronic control system adapts fuel consumption to the load and enables improved regulation of exhaust emissions. Mechanical regulation is also possible on lower powered naturally aspirated engines.

Emissions from the engines are classified in accordance with the emissions standard (Directive 97/68/EU) according to the information supplied by the manufacturer (levels I, II, III or above).

The following manufacturers are available: Deutz, Volvo, Iveco, Perkins and MTU

### ALTERNATORS

Our synchronous generators are either one or three-phase and have a static, brushless excitation unit or external excitation. The standard insulation class is class H; classes F and B are available as an alternative.

All of the generators comply with the international standard IEC 60034 for rotating electrical machines (or VDE 0530 (Germany) or DIN-EN 60034 (EU)), and comply as standard with the IP21 degree of protection (Ingress Protection Rating). IP23 is also available upon request.

The following manufacturers are available: Leroy Somer, Mecc Alte and Stamford

### CONTROL CABINETS

Critical applications require a solution that includes the complete power generation system, from the primary drive control system to synchronisation, parallel operation and distribution. Consequently, individually produced control cabinets such as low-voltage main and small distribution systems with divergent connection options form part of our range.

Ohmega designs and produces emergency power supply control cabinets according to project-specific requirements and in accordance with the most recent EU directives, standards and regulations.

Additional functions, such as direct integration into existing control technology interfaces, can be implemented at any time.

A control panel on the front of the control cabinet door allows straightforward control of the system and parameter display including voltage, frequency, current, active and apparent power, temperature and oil pressure. If required, the control panel can also be designed as a "sunlight readable display", which can be read just as easily even in sunlight.

Alternatively, the customer can configure and design the control panel to meet own requirements.

The following manufacturers are available: DSE, Lovato, Woodward



A reliable energy supply requires a competent and reliable partner ...



## SERVICES

The Ohmega team has excellently trained staff with many years of multi-disciplinary experience. We would be pleased to create a service package for you, tailored to your individual requirements.

### ENGINEERING

- ✦ Consultation and support in advance of the investment decision
- ✦ Design, project planning and project management
- ✦ Network and load analyses
- ✦ Short-circuit and selectivity calculations

### PROJECT PLANNING

- ✦ Compilation of design documents
- ✦ Compilation of scheduling plans (ACAD)
- ✦ Compilation of circuit diagrams (RUPLAN, EPLAN)
- ✦ Inventory
- ✦ System documentation

### INSTALLATION AND COMMISSIONING

- ✦ Turnkey installation and commissioning
- ✦ System modernisation without operational disruption
- ✦ Factory acceptance test with experts

### SERVICE AND SUPPORT

- ✦ Initial and periodic system inspections in accordance with the most recent standards and regulations
- ✦ Thermographic measurements
- ✦ Product training
- ✦ Maintenance and service management
- ✦ Hotline support

The quality of our products and services is our foremost priority. To ensure that our quality policy is visible to the outside world, Ohmega Energy GmbH is certified to the following standards in terms of quality, the environment and employee protection:





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**THE CURRENT FLOWS  
WHEREVER WE ARE**