

# EG-1900BD

50 Hz. 400 VAC Diesel Generator  
Technical Information



**ENERGON**  
— Keep Life On —



## Generator Group

Stand By Power

1929

kVA

1543,2

kW

Prime Power

1752

kVA

1401,6

kW

### Continuous Power (CP)

The maximum power which a generating set is capable of delivering continuously whilst supplying a constant electrical load.

Average load can be 100%. The generator must not be overloaded.

### Standby Power (ESP)

This rating is for the supply of continuous electrical power at variable load, in the event of utility power failure. No overload is permitted.

### Prime Power (PRP)

This rating is for the supply of continuous electrical power at variable load.

There is no limitation on the annual hours in operation and 10% overload power can be supplied for 1 hour in 12.

## Size

W x L x H  
mm.

Weight  
kg.

Fuel Capacity  
lt.

Open Type

2554 x 5300 x 2900

12002

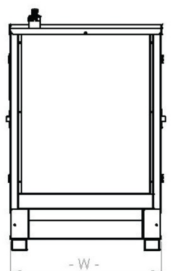
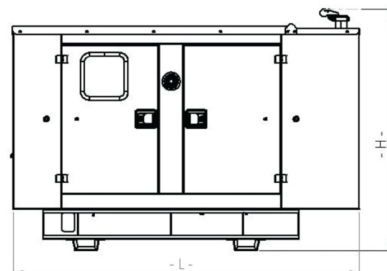
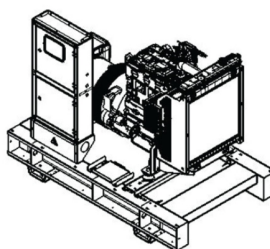
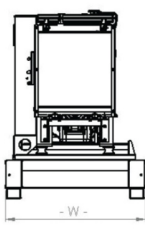
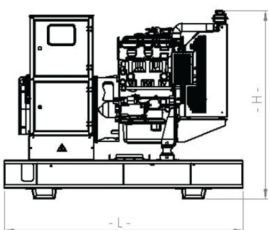
3500

Canopied

2554 x 6080 x 3000

13712

3500



### Optional Equipments

- Automatic fuel filling system
- Fuel tank heaters, oil sump heaters, alternator heaters
- Alternator with PMG and double AVR
- Synchronization systems
- Remote monitoring system
- Circuit breaker
- Automatic Transfer Switch (ATS)
- Seismic solutions
- Trailer

### Canopy Features

- Emergency stop button mounted on the canopy
- High-quality corrosion and rust resistant powder coating
- Optimized sound insulation for low noise operation
- Easy-access filling points for coolant and engine fluids
- Optimized airflow design for efficient cooling
- Large service doors for easy maintenance and servicing

### Chassis and Fuel Tank

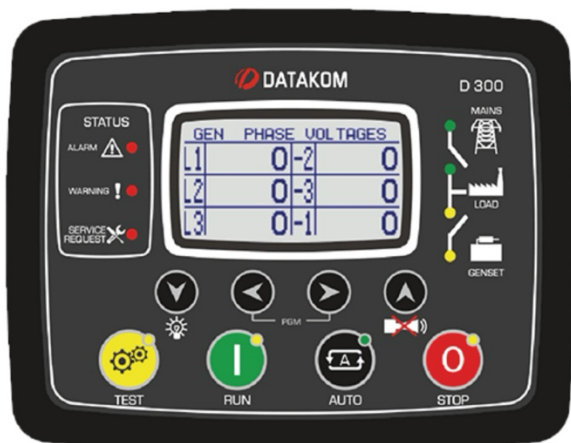
- Heavy-duty welded steel chassis
- Integrated fuel tank with robust structural design
- Lifting lugs for safe transportation and installation
- High-strength steel construction for maximum durability
- Custom chassis configurations available upon request
- Rubber anti-vibration mounts to minimize vibration and ensure stable operation

## Diesel Engine

|                                |                          |         |
|--------------------------------|--------------------------|---------|
| Manufacturer                   | <b>BAUDOUIN</b>          |         |
| Manufacturer Model             | <b>16M33G1900/5</b>      |         |
| Number of Cylinders            | <b>16</b>                | pcs.    |
| Cylinders Configuration        | <b>V TYPE</b>            |         |
| Bore                           | <b>150</b>               | mm.     |
| Stroke                         | <b>185</b>               | mm.     |
| Displacement                   | <b>52,3</b>              | lt.     |
| Compression Ratio              | <b>15:1</b>              |         |
| Aspiration                     | <b>TURBO-AFTERCOOLER</b> |         |
| Governor Type                  | <b>ECU</b>               |         |
| Cooling Method                 | <b>WATER</b>             |         |
| DC Voltage                     | <b>24</b>                | VDC     |
| Speed /Frequency               | <b>1500 rpm / 50 Hz</b>  | RPM/Hz. |
| Rating Power                   | <b>1650</b>              | kW.     |
| Fuel Consumption ESP %110 Load | <b>407</b>               | lt./h.  |
| Fuel Consumption ESP %100 Load | <b>364</b>               | lt./h.  |
| Fuel Consumption ESP %75 Load  | <b>265</b>               | lt./h.  |
| Fuel Consumption ESP %50 Load  | <b>180</b>               | lt./h.  |
| Max. Exh. Outlet Temperature   | <b>550</b>               | °C      |
| Lub. Oil Specification         | <b>15W/40 - CI4</b>      |         |
| Oil Capacity                   | <b>171</b>               | lt.     |
| Coolant Liq Capacity           | <b>400</b>               | lt.     |

## Alternator

|                                           |                        |
|-------------------------------------------|------------------------|
| No of Phases                              | <b>3</b>               |
| No of Poles                               | <b>4</b>               |
| No of Leads                               | <b>12</b>              |
| Power Factor                              | <b>0,8</b>             |
| No of Bearings                            | <b>Single</b>          |
| Degree of Protection                      | <b>IP 23</b>           |
| Insulation Class H-F Degree of Protection | <b>H</b>               |
| Excitation System                         | <b>Brushless / AVR</b> |



## D-300 MK2 ADVANCED GENSET CONTROLLER

### Functions

- AMF unit
- ATS unit
- Remote start controller
- Manual start controller
- Engine controller
- Remote Monitoring Panel

### Communications

- GSM Modem (2G-3G-4G)
- Ethernet 100Mbps
- Wi-Fi
- RS-485 isolated (2400-57600baud)
- RS-232 isolated (2400-57600baud)
- USB Device
- J1939 CANBUS
- Web monitoring
- Web programming
- Central Monitoring through internet
- SMS message sending
- E-mail sending
- PC software: Rainbow Plus
- Central monitoring
- Modbus RTU through RS-485
- Modbus TCP/IP
- Optional with plug-in module

### Topologies

- 3 phases 4 wires, star & delta
- 3 phases 3 wires,
- 3 CTs 3 phases 3 wires,
- 2 CTs 2 phases 3 wires
- 1 phase 2 wires

### Descriptions

The D-300-MK2 is a next generation genset control unit combining multi-functionality and wide communication possibilities together with a reliable and low cost design. The same controller provides AMF, ATS, Remote Start and Engine Control functionalities. The module comes ready for remote monitoring over GSM or Ethernet with plug-in communication modules. Various plug-in modules provide unlimited expansion capabilities allowing to meet any special requirement. The unit complies and mostly exceeds world's tightest safety, EMC, vibration and environmental standards for the industrial category. Software features are complete with easy firmware upgrade process through USB port. The Windows based PC software allows monitoring and programming through USB, serial and GPRS. The Rainbow Scada central monitoring service allows monitoring and control of an unlimited number of gensets from a single central location.