



A-1



WATER-COOLED



THREE PHASE



50 Hz



NON COMPLYING EPA



DIESEL

## GENERATING RATES

| SERVICE               |         | PRIME                     | STANDBY |
|-----------------------|---------|---------------------------|---------|
| Power                 | kVA     | 90                        | 100     |
| Power                 | kW      | 72                        | 80      |
| Rated Speed           | r.p.m.  | 1500                      |         |
| Standard Voltage      | V       | 400                       |         |
| Available Voltages    | V       | 230 - 230/132 - 400/230 V |         |
| Rated at Power Factor | Cos Phi | 0,8                       |         |

EUROGEN Company with quality certification ISO 9001

EUROGEN gensets are compliant with EC mark which includes the following directives:

- 2006/42/CE Machinery safety.
- 2006/95/EC Low voltage.
- 2004/108/CE Electromagnetic compatibility.
- 2000/14/EC Sound Power level. Noise emissions outdoor equipment. (amended by 2005/88/EC)
- EN 12100, EN 13857, EN 60204
- Ambient conditions of reference according to ISO 8528-1:2005 normative: 1000 mbar, 25°C, 30% relative humidity.

Prime Power (PRP):

According to ISO 8528-1:2005, Prime power is the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output (Ppp) over 24 h of operation shall not exceed 70 % of the PRP.

Emergency Standby Power (ESP):

According to ISO 8528-1:2005, Emergency standby power is the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 h of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. The permissible average power output over 24 h of operation shall not exceed 70 % of the ESP

EUROGEN HEADQUARTERS:

Factory: Büyükdikili Mah. 93015 Sok. No:1/1 (Adana-Mersin Yolu Üzeri 15. Km. Bossa Karşısı) Seyhan / ADANA / TURKEY

**ENGINE SPECIFICATIONS 1500 r.p.m.**

| Rated Output | Prime | Standby |
|--------------|-------|---------|
| kW           | 90    | 100     |

- Make **LEYLAND**
- Model **AL6DTIG1**
- Engine Type **Diesel 4 strokes-cycle**
- Number of Cylinder **6**
- Cylinder arrangement **In line**
- Aspiration **Turbocharged**
- Compression ratio **17,5:1**
- Bore and Stroke **104 x 113**
- Displacement **5,7**
- Cooling system **Water Cooled**
- Total coolant capacity **16**
- Total lubrication **12**
- Governor type **Electronic**
- Electric system **12 VDC**

**Engine Dimension and Weight**

|                        |                    |    |
|------------------------|--------------------|----|
| Lenth x Width x Height | 1605 x 1030 x 1203 | mm |
| Weight                 | 600                | Kg |

## GENERATOR

|                                |       |                                |
|--------------------------------|-------|--------------------------------|
| Poles                          | Num   | 4                              |
| Winding Conections (standard)  |       | Star-series                    |
| Frame Mounting                 |       | S-3 11"1/2                     |
| Insulation                     | Class | H class                        |
| Enclosure (according IEC-34-5) | Num   | IP23                           |
| Exciter System                 |       | self-excited, brushless        |
| Voltage Regulator              |       | A.V.R. (Electronic)            |
| Bearing                        |       | Single bearing                 |
| Coupling                       |       | Flexible disc                  |
| Coating type                   |       | Standard (Vacuum impregnation) |

## APPLICATION DATA

### Exhaust System

|                                 |     |     |
|---------------------------------|-----|-----|
| Maximum Exhaust Temperature     | °C  | 510 |
| Maximum Allowable Back Pressure | kPa | 7   |

### Air Inlet System

|                         |      |       |
|-------------------------|------|-------|
| Alternator fan air flow | m³/s | 0,242 |
|-------------------------|------|-------|

### Starting System

|                              |     |     |
|------------------------------|-----|-----|
| Starting Motor               | kW  | 3   |
| Recommended Battery Capacity | Ah  | 150 |
| Auxiliary Voltage            | Vcc | 12  |

### Fuel System

|                         |    |        |
|-------------------------|----|--------|
| Fuel Oil Specifications |    | Diesel |
| Fuel Tank Capacity      | Lt | 335    |

### Fuel Consumption :

|                              |      |      |
|------------------------------|------|------|
| Fuel Consumption 50% Loaded  | Lt/h | 11,5 |
| Fuel Consumption 75% Loaded  | Lt/h | 16,5 |
| Fuel Consumption 100% Loaded | Lt/h | 22,4 |

## GENERATING SETS STANDARD and OPTIONAL FEATURES

### Engine

- Diesel engine
- 4 strokes-cycle
- Water cooled
- 12 V electrical system
- Radiator with blowing fan
- Water separator decanting filter (no visible level)
- Mechanical / Electronic governor
- Sender WT
- Senders OP
- Dry air cleaner
- Hot components and radiator guards
- Mobile components guards
- Optional : Low water level sensor

### Alternator

- VDE 0530 & IEC 34-1 standardizations
- Synchron type brushless
- Automatic voltage regulation (AVR)
- Overload acceptance: 110% for 1 hour, 150% for 2 minutes
- Short circuit resistance: 300 for 10 seconds
- Insulation class: H
- Insulation resistance: 1800 VAC
- Voltage: 230/400 V 3 phase
- Voltage regulation: +/- 0,5%
- Protection class: IP23
- Power factor (cosφ): 0,8
- Frequency: 50 Hz

## Chassis

- Mounted on the steel base chassis
- Elastic vibration dampers between engine and chassis
- Chassis integrated fuel tank
- Dial type mechanical fuel indicator

## Canopy

- Easy lifting and moving
- Metal parts are coated with electrostatic polyester coated, powder painted
- Thermally insulated exhaust system

## Automatic Control Panel

- Microprocessed AMF Electronic Control Panel
- Protection fuses
- Battery charger
- Power transfer (For ATS)
- Emergency stop button



## Manuel Control Panel

- Microprocessed Electronic Control Panel
- Relays
- Protection fuses
- Thermic magnetic circuit breaker (TMS) 3-pole
- Emergency stop button

## GENSET DIMENSIONS



### Open Type Dimension and Weight

|                        |                    |    |
|------------------------|--------------------|----|
| Lenth x Width x Height | 2400 x 1100 x 1650 | mm |
| Weight                 | 1260               | Kg |

(\*) (with standard accesories)

### Canopy Type Dimension and Weight

|                        |                    |    |
|------------------------|--------------------|----|
| Lenth x Width x Height | 3300 x 1100 x 1800 | mm |
| Weight                 | 1720               | Kg |

(\*) (with standard accesories)

*Eurogen reserves the right to modify any characteristic without prior notice.*

*Weights and dimensions based on products standar. Illustrations may include optional equipment. Technical data described here correspond with the available information at the moment of printing. Industrial design under patent.*

Local