



With over 10 years of experience in the production of our own Power Generator Sets, we can easily adjust appropriate means of production, transfer and control of energy needs for our customers, both Continuous – as the main source of energy, and Standby – as the reliable power support complex. Powerful, reliable and economical Generating Set Diesel Engine built on the dependable in-line six design.

STANDBY POWER RATING is applicable for supplying emergency power for the duration of the utility power outage (more at [www.genpower.pl](http://www.genpower.pl)).

PRIME POWER RATING is available for an unlimited number of hours per year in variable load application (for more details go to (more at [www.genpower.pl](http://www.genpower.pl)).

## GENERATOR SET

|                |                      |
|----------------|----------------------|
| Standby rating | 225,5/180,4 [kVA/kW] |
| Prime rating   | 205/164 [kVA/kW]     |
| Prime current  | 295,2 [A]            |
| Voltage        | 230/400 [V]          |
| Power factor   | 0,8 [cos φ]          |
| Frequency      | 50 [Hz]              |

## ENGINE

|                                 |                  |
|---------------------------------|------------------|
| Manufacturer/Type               | VOLVO/TAD 733 GE |
| Rated speed                     | 1500 [rpm]       |
| Cylinders count and arrangement | 6, In-line       |
| Rated output                    | 197 [kW]         |
| Fuel type                       | Diesel           |
| Cooling system                  | Liquid           |
| Engine speed limiter            | Electrical       |
| Capacity                        | 7,15 [l]         |
| Auxiliary voltage               | 12 [V] DC        |
| Fuel consumption at 50% load    | 25,5 [l/h]       |
| Fuel consumption at 75% load    | 37,6 [l/h]       |
| Fuel consumption at 100% load   | 50,7 [l/h]       |
| Fuel tank capacity (enclosure)  | 515 [l]          |
| Fuel tank capacity              | 515 [l]          |

## GENERATOR

|   |   |
|---|---|
| Type  | Synchronous, brushless                                  |
| Oveload capacity                                | 110% for 1 h, within 12 h of work<br>150% for 2 minutes |
| Insulation resistance                           | min. 1800 V   |
| Momentary overload                              | 300% for 10 s   |
| Insulation class                                | H   |
| Voltage (Single phase/Three phase)              | 230/400 V   |
| Voltage regulation                              | +/- 1%  |
| In accordance with VDE 0530 & IEC 34-I standard |   |
| Voltage regulation AVR                          |   |
| Short circuit current                           | >300% In  |
| IP protection                                   | IP 21   |
| Frequency                                       | 50 [Hz]   |

## DIMENSIONS

|                   |                  |
|-------------------|------------------|
| Width (enclosed)  | 1300 (1300) [mm] |
| Length (enclosed) | 3480 (4000) [mm] |
| Height (enclosed) | 1700 (2110) [mm] |
| Weight (enclosed) | 1820 (2230) [kg] |

## ENCLOSURE

|   |
|---|
| Convenient handling   |
| Electrostatic powder paint enclosure protection   |
| Exhaust thermal protection  |
| Non-combustible enclosure noise insulation fabric in accordance with DIN 4102 A2 standard |

## BASE FRAME

|   |
|---|
| Generator set mounted to the base frame |
| Flexible vibration isolators            |
| Separate fuel tank (enclosed)           |
| Fuel tank within base frame (open)      |
| Electronic fuel level indicator         |

## OPTIONAL EQUIPMENT

|   |
|---|
| Homologated chassis                       |
| ATS and parallel gensets operations       |
| Container type enclosures                 |
| Engine exhaust system                     |
| Air ventilation system                    |
| Residual-current device (RCD)             |
| Refueling pumps and additional fuel tanks |
| Distribution boards and cables            |
| Remote control via PC or GSM              |
| Analogue or digital display               |
| GPS monitoring system                     |
| Alternative voltage applications          |
| Spark arrester                            |
| Concrete floor slab                       |
| Warranty and post-warranty service        |

## OPERATING DATA

|   |   |         |
|---|---|---------|
| Lube oil type                                   | 15W40   | MOBIL   |
| Lube oil capacity                               | L   | 34,0    |
| Oil usage per 1 kW                              | %   | -       |
| Lube oil change period (Engine Operating Hours) | 1st: after 100 eoh, subsequent: every 300 eoh |         |
| Coolant type                                    | Antifreeze                                    | PETRYGO |
| Coolant quantity                                | L   | 38,4    |
| Coolant change period                           | eoh/year                                      | 1000/1  |
| Starter batteries capacity                      | Ah  | 2x100   |
| Diesel fuel specification                       |   | EN 590  |
| Fuel consumption at 100% load                   | L/h   | 50,7    |
| Fuel consumption at 75% load                    | L/h   | 37,6    |
| Fuel consumption at 50% load                    | L/h   | 25,5    |
| Fuel filter change                              | eoh/year                                      | 500/1   |
| Oil filter change                               | eoh/year                                      | 500/1   |



## INSTALLATION GUIDELINES

|  |                                  |               |
|--|----------------------------------|---------------|
| Power output                                   | Main switch terminals            |               |
| Power output cables                            | Flexible cord [mm <sup>2</sup> ] | 5x185 (<30rm) |
| ATS cables                                     | Flexible cord [mm <sup>2</sup> ] | 7x1,5 (<30rm) |
| Unit auxiliary cables                          | Flexible cord [mm <sup>2</sup> ] | 3x2,5 (<30rm) |
| Engine exhaust manifold diameter               | mm                               | 76,1          |
| Exhaust diameter (max. 7 rm, four 90° elbows)  | mm                               | 114,3         |
| Exhaust diameter (max. 15 rm, four 90° elbows) | mm                               | 114,3         |
| Radiator hight                                 | mm                               | 904           |
| Radiator width                                 | mm                               | 705           |
| Cool air intake area                           | m <sup>2</sup>                   | 0,9           |
| Hot air exhaust area                           | m <sup>2</sup>                   | 0,9           |
| Concrete floor slab dimensions                 | mm                               | 1600x4300     |



## UNIT CONTROLLER

|                                     |  |
|-------------------------------------|--|
| Multifunctional LCD display         | Engine speed   |
| Three poles magnetothermic switch   | Complete engine and genset protection                        |
| Safety switch                       | RMS voltage detection  |
| Automatic start                     | RMS current/power detection                                  |
| Battery charger                     | kWh counter  |
| ATS compatible: auto start and stop | Engine operating hours (EOH), start and conservation counter |
| Voltmeter                           | Configurable digital inputs                                  |
| Ammeter                             | Configurable analogue inputs                                 |
| Coolant level indicator             | Configurable transmitter inputs                              |
| Oil level indicator                 | PC or display controlled settings                            |
| Engine temperature                  | Languages support including Polish                           |
| Oil pressure                        | GL, LE marine certificates in accordance with CE directives  |

GENPOWER reserves the right to modify the products due to their continuous improvement at any time.  
Therefore, the information contained in this document may be changed. For additional information, please contact GENPOWER nearest office.