

**TECHNIQUE INFORMATION  
DIESEL GENERATORS  
GSG ALFA DIESEL ENGINE POWERED**

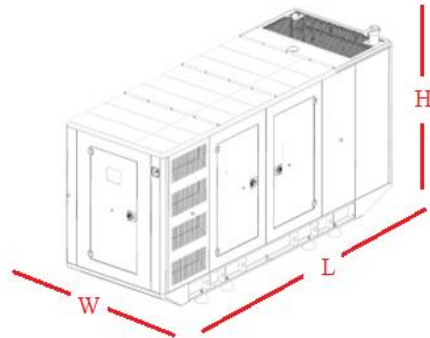


| ALFA                 |     |      | GSG - P48           |                     |
|----------------------|-----|------|---------------------|---------------------|
| <b>Standby Power</b> | kVA | 48   | <b>Engine Speed</b> | <b>Power Factor</b> |
|                      | kW  | 38,4 | 1500 rpm            | 0,8 Cos Phi         |
| <b>Prime Power</b>   | kVA | 42   | <b>Voltage</b>      |                     |
|                      | kW  | 33,6 | 400 / 230 V         |                     |

**ENGINE**

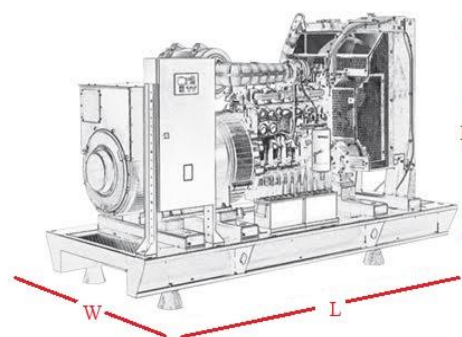
**FUEL CONSUMPTION (lt/h)**

|                           |            |  |   |      |
|---------------------------|------------|--|---|------|
| Brand                     |            | PERKINS                                | %110 ESP  | 11,7 |
| Power PRP                 | kW         | 41.3                                   | %100 PRP  | 10,8 |
| Model                     |            | 1103A-33TG1                            | %75 PRP   | 8,23 |
| N° of Cylinders / Valves  |            | 3/6                                    | %50 PRP   | 5,83 |
| Engine Type               |            | 4                                      | (The specific gravity is 0.84 and the fuel is considered to be BS2869, Class A2.) |      |
| Displacement              | lt         | 3.3                                    |   |      |
| Aspiration                |            | Turbocharged                           |   |      |
| Bore x Stroke             | mm         | 105x127                                |   |      |
| Compression Ratio         |            | 17,25:1                                |   |      |
| Air Filter                |            | Heavy Duty                             |   |      |
| Cooling Method            |            | Water Cooled ( water + %50 antifreeze) |   |      |
| Total Coolant Capacity    | lt         | 10.2                                   |   |      |
| Governor Type             |            | Mechanical                             |   |      |
| Electrical System         |            | 12VDC                                  |   |      |
| Battery Charger Current   |            | 65A                                    |   |      |
| Oil Capacity              | lt         | 7.9                                    |   |      |
| Exhaust Gas Flow PRP      | [m3 / min] | 7,0                                    |   |      |
| Exhaust Gas Temp.         | [°C]       | 492                                    |   |      |
| Air Flow PRP              | [m3/min]   | 2.9                                    |   |      |
| Cooling Air Flow PRP      | [m3/min]   | 53                                     |   |      |
| Starter Power             | (kW)       | 3 kW                                   |   |      |
| Standard Battery Voltage  | [V]        | 12VDC                                  |   |      |
| Standard Battery Capacity |            | 1x60 Ah                                |   |      |
| Standard Battery Type     |            | Maintenance-Free Lead Acid             |   |      |



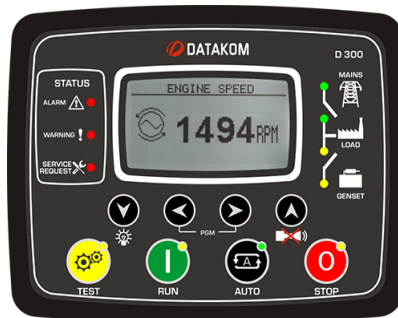
**ALTERNATOR**

|  |            |                |
|--|------------|----------------|
| Brand                                  |            | LINZ           |
| Model                                  |            | PRO18M E/4     |
| Voltage                                |            | 400 /230 VAC   |
| Number of Phase                        |            | 3              |
| Power Factor                           |            | 0.8            |
| Number of Poles                        |            | 4              |
| Connection Type                        |            | Star           |
| Bearing                                |            | Single         |
| Insulation Class                       |            | H              |
| Protection Class                       |            | IP 23          |
| Winding                                |            | 2/3            |
| Control System                         |            | Self Excited   |
| Voltage Regulator                      |            | Electronic AVR |
| Efficiency 4/4 400VAC 50Hz             | (cosφ=1)   | 91.7           |
| Voltage Regulation                     |            | ±%1            |
| THD                                    |            | <%3            |
| Apparent Power [kVA] Prime 400VAC 50Hz |            | 42             |
|  | 125°C/40°C |                |



| OPEN VERSION |            |            |                 |                          | CANOPY VERSION |            |            |                 |
|--------------|------------|------------|-----------------|--------------------------|----------------|------------|------------|-----------------|
| Width(mm)    | Length(mm) | Height(mm) | Dry Weight (kg) | Fuel Tank Capacity (lt.) | Width(mm)      | Length(mm) | Height(mm) | Dry Weight (kg) |
| 1000         | 1750       | 1130       | 741             | 95                       | 1060           | 2220       | 1450       | 975             |

**TECHNIQUE INFORMATION  
DIESEL GENERATORS  
GSG ALFA DIESEL ENGINE POWERED**



- \* Diesel and gas genset support
- \* 400Hz operation support
- \* Downloadable languages
- \* Harmonic analysis of V & I
- \* Weekly operation schedule
- \* Dual mutual standby with equal aging of gensets
- \* Overload IDMT protection
- \* Current unbalance protection
- \* Fuel filling & fuel theft alarms
- \* Battery back-up real time clock

- \* Idle speed control
- \* Contactor & MCB drive
- \* Fuel filling counters
- \* Fuel consumption counter
- \* Automatic GSM geo-location
- \* Reverse power protection
- \* Free configuration program
- \* Mobile genset support
- \* 3 level configuration password
- \* Ip65 rating with optional gasket



- \* Full remote communications support (AirGate 2.0, WSV)
- \* Internet access using Ethernet / 4G, Modbus TCP/RTU  
SNMP v1/v2c
- \* Active SMS and emails
- \* Detailed history log with up to 350 records
- \* Dual Mutual Standby application support
- \* Remote display
- \* User setpoints and protections
- \* 5 languages in the controller & Translator functionality
- \* User Access Management
- \* Cyber security improvement
- \* Alternative configurations
- \* Multi-purpose schedulers
- \* Modbus register mapping possibility

- \* Stand-by and prime-power application in one unit
- \* Backlit symbols
- \* 8 binary outputs, 8 + 1 binary inputs, 4 analog inputs (U/I/R)
- \* +5 V output reference for analog inputs
- \* 2 high-current E-Stop binary outputs
- \* USB Host
- \* Inbuilt RS485
- \* 2 slots for extension plug-in modules (Modbus, Internet,  
\* SMS, inputs/outputs)
- \* Extension CAN modules
- \* ECU support (Tier 4 Final, Stage V)
- \* RTC with battery back-up (full calendar)
- \* Power over USB for controller configuration
- \* Zero power mode
- \* True RMS measurement
- \* In-built PLC, complemented with a PLC monitoring tool in  
IntelConfig  
IntelConfig
- \* Load shedding, dummy load management
- User buttons
- \* User buttons
- \* Geofencing based on GPS position
- \* Available also in low temperature version (Order code: