**TECHNIQUE INFORMATION**
**DIESEL GENERATORS**
**GSG ALFA DIESEL ENGINE POWERED**
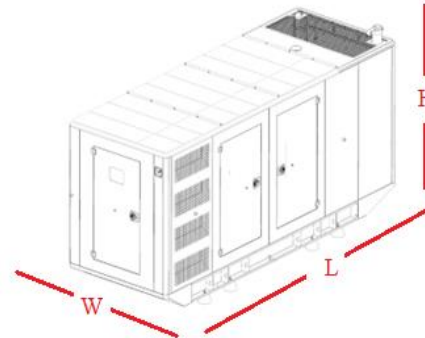
GENSTAR
the energy

| ALFA | | | | GSG - C460 | |
|---|---|---|---|---|---|
| **Standby Power** | kVA | 460 | **Engine Speed** | | **Power Factor** |
| | kW | 368 | 1500 rpm | | 0,8 Cos Phi |
| **Prime Power** | kVA | 415 | **Voltage** | | |
| | KW | 332 | 400 / 230 V | | |

## ENGINE

| Brand | | CUMMINS |
|---|---|---|
| Power PRP | kW | 371 |
| Model | | QSG12-G4 |
| N° of Cylinders / Valves | | 6 |
| Engine Type | | 4 |
| Displacement | lt | 11,8 |
| Aspiration | | Turbocharger and Aftercooler System |
| Bore x Stroke | mm | 132x144 |
| Compression Ratio | | 17.0:1 |
| Air Filter | | Heavy Duty |
| Cooling Method | | Water Cooled (water + %50 antifreeze) |
| Total Coolant Capacity | lt | 48 |
| Governor Type | | ECM (Engine Control Modul) |
| Electrical System | | 24VDC |
| Battery Charger Current | | 110 |
| Oil Capacity | lt | 34,1 |
| Exhaust Gas Temp. | [L/s] | 936 |
| Air Flow PRP | [C] | ≤507 |
| Cooling Air Flow PRP | [L/s] | 387 |
| Starter Power | [m3/s] | 8,4 |
| Starter Power | (kW) | TBA |
| Standard Battery Voltage | | 24 VDC |
| Standard Battery Capacity | | 2x105Ah |
| Standard Battery Type | | Maintenance-Free Lead Acid |

## FUEL CONSUMPTION (lt/h)

| %110 ESP | 92 |
|---|---|
| %100 PRP | 82 |
| %75 PRP | 60 |
| %50 PRP | 41 |

(The specific gravity is 0.84 and the fuel is considered to be BS2869, Class A2.)



## ALTERNATOR

| Brand | | LINZ |
|---|---|---|
| Model | | PRO28ME/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 | | 5/6 |
| Control System | | Self Excited |
| Voltage Regulator | | Electronic AVR |
| Efficiency 4/4 400VAC 50Hz | (cosφ=1) | 94,3 |
| Voltage Regulation | | ±%1 |
| THD | | <%5 |
| Appearent Power [kVA] Prime 400VAC 50Hz 125ºC/40ºC | | 330 |



| 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) |
| 1650 | 3750 | 1942 | 2915 | 1130 | 1710 | 4710 | 2560 | 3767 |
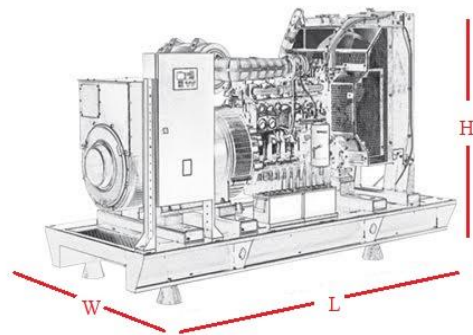
* Diesel and gas genset support
* 400Hz operaton support
* Downloadable languages
* Harmonic analysis of V & I
* Weekly operaton schedule
* Dual mutual standby wth equal agng of gensets
* Overload IDMT protecton
* Current unbalance protecton
* Fuel filling & fuel theft alarms
* Battery back-up real tme clock

* Idle speed control
* Contactor & MCB drve
* Fuel filling counters
* Fuel consumpton counter
* Automatic GSM geo-locaton
* Reverse power protecton
* Free configuraton program
* Mobile genset support
* 3 level configuraton password
* Ip65 ratng wth optonal gasket
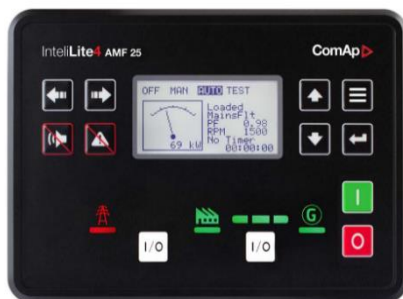


* Full remote communications support (AirGate 2.0, WSV)
* Internet access using Ethernet / 4G, Modbus TCP/RTU
SNMP v1/v2c
* Active SMS and emails
* Detailed history log with up to 350 records

* 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
* Inbuild RS485
* 2 slots for extension plug-in modules (Modbus, Internet,
* SMS, imputs/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
InteliConfig

* Load shedding, dummy load management
User buttons
* User buttons
* Geofencing based on GPS position
* Available also in low temperature version (Order code: