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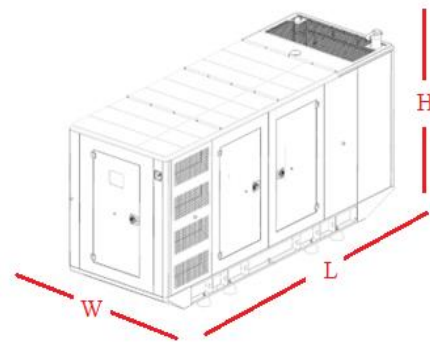
**GENSTAR** the energy

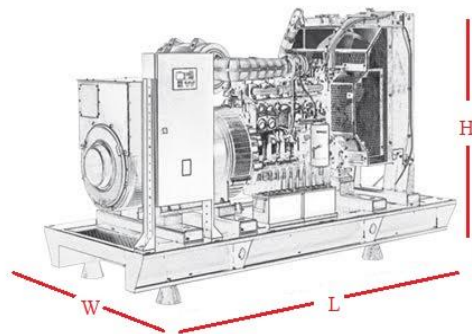| STAR | | | GSG - S175 | |
|---|---|---|---|---|
| **Standby Power** | kVA | 175 | **Engine Speed** | **Power Factor** |
| | kW | 140 | 1500 rpm | 0,8 Cos Phi |
| **Prime Power** | kVA | 160 | **Voltage** | |
| | KW | 128 | 400 / 230 V | |

## ENGINE

| Brand | | SDEC |
|---|---|---|
| Power PRP | kW | 154 |
| Model | | SC7H230D2 |
| N° of Cylinders / Valves | | 6/24 |
| Engine Type | | 4 Stroke |
| Displacement | lt | 6,44 |
| Aspiration | | Turbocharged - Intercooled |
| Bore x Stroke | mm | 105x124 |
| Compression Ratio | | 16:1 |
| Air Filter | | Replaceable Element |
| Cooling Method | | Water Cooled (water + %50 antifreeze) |
| Total Coolant Capacity | lt | 28,6 |
| Governor Type | | Electronic |
| Electrical System | | 24VDC |
| Battery Charger Current | | 55A |
| Oil Capacity | lt | 17,5 |
| Exhaust Gas Flow PRP | [m3/min] | 27,2 |
| Exhaust Gas Temp. | [°C] | 600 |
| Air Flow PRP | [m3/min] | 12,2 |
| Cooling Air Flow PRP | [m3/min] | 271,8 |
| Starter Power | (kW) | 4,5 |
| Standard Battery Voltage | [V] | 24VDC |
| Standard Battery Capacity | | 2X75 |
| Standard Battery Type | | Maintenance-Free Lead Acid |

## FUEL CONSUMPTION (lt/h)

| %110 ESP | 39,9 |
|---|---|
| %100 PRP | 36 |
| %75 PRP | 26,8 |
| %50 PRP | 17,8 |

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



## ALTERNATOR

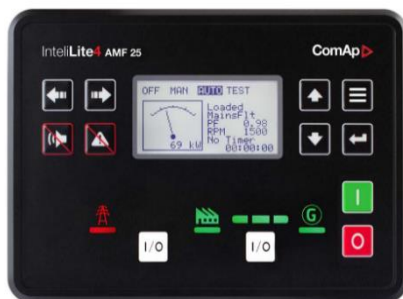| Brand | | NEKRA |
|---|---|---|
| Model | | ARK 274E |
| Voltage | | 400/230 VAC |
| Number of Phase | | 3 |
| Power Factor | | 0,8 |
| Number of Poles | | 4 |
| Connection Type | | Star |
| Bearing | | Single |
| Insulation Class | | H |
| Protection Class | | IP 23 |
| Winding | | 2/3 |
| Control System | | Self Excited |
| Voltage Regulator | | Electronic AVR |
| Efficiency 4/4 400VAC 50Hz | (cosφ=1) | 94 |
| Voltage Regulation | | +%1 |
| THD | | <%5 |
| Appearent Power [kVA] Prime 400VAC 50Hz 125ºC/40ºC | | 160 |



| 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) |
| 1100 | 2650 | 1530 | 1549 | 294 | 1100 | 3440 | 1950 | 2010 |

* 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: