

TECHNIQUE INFORMATION
DIESEL GENERATORS
GSG ALFA DIESEL ENGINE POWERED



| ALFA | | | GSG - P850 | |
|------|--|--|------------|--|
|------|--|--|------------|--|

| | | | | |
|----------------------|-----|------------|---------------------|---------------------|
| Standby Power | kVA | 850 | Engine Speed | Power Factor |
| | kW | 680 | 1500 rpm | 0,8 Cos Phi |

| | | | | |
|--------------------|-----|------------|----------------|--|
| Prime Power | kVA | 770 | Voltage | |
| | KW | 616 | 400 / 230 V | |

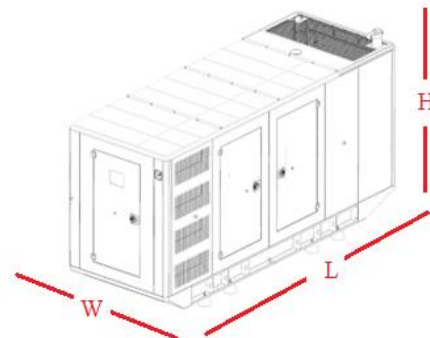
ENGINE

| | | |
|---------------------------|------------|---------------------------------------|
| Brand | | PERKINS |
| Power PRP | kW | 646 |
| Model | | 2806A-E18TTAG5 |
| N° of Cylinders / Valves | | 6/24 |
| Engine Type | | 4 |
| Displacement | lt | 18.1 |
| Aspiration | | Turbocharged - Air to air cooled |
| Bore x Stroke | mm | 145x183 |
| Compression Ratio | | 14:1 |
| Air Filter | | Heavy Duty |
| Cooling Method | | Water Cooled (water + %50 antifreeze) |
| Total Coolant Capacity | lt | 110 |
| Governor Type | | ECM (Engine Control Modul) |
| Electrical System | | 24VDC |
| Battery Charger Current | | 50A |
| Oil Capacity | lt | 68 |
| Exhaust Gas Flow PRP | [m3 / min] | 132 |
| Exhaust Gas Temp. | [°C] | 464 |
| Air Flow PRP | [m3/min] | 58 |
| Cooling Air Flow PRP | [m3/min] | 16.29 |
| Starter Power | (kW) | 9 |
| Standard Battery Voltage | [V] | 24VDC |
| Standard Battery Capacity | | 4x75Ah |
| Standard Battery Type | | Maintenance-Free Lead Acid |

FUEL CONSUMPTION (lt/h)

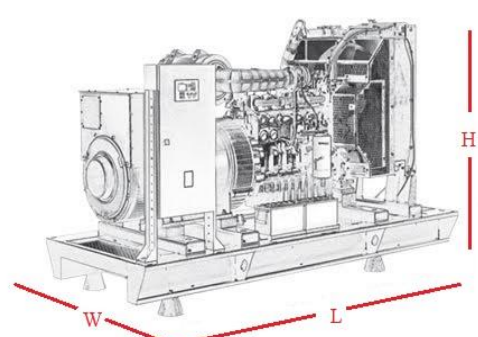
| | |
|----------|-----|
| %110 ESP | 180 |
| %100 PRP | 162 |
| %75 PRP | 118 |
| %50 PRP | 80 |

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



ALTERNATOR

| | | |
|--|------------|----------------|
| Brand | | LINZ |
| Model | | PRO35L H/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) | 96.5 |
| Voltage Regulation | | ±%1 |
| THD | | <%3 |
| Apparent Power [kVA] Prime 400VAC 50Hz | | 800 |
| | 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) |
| 1650 | 3750 | 2205 | 4550 | 1130 | 1710 | 4710 | 2560 | 5790 |



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