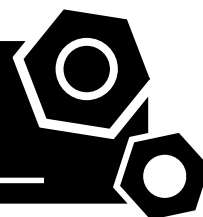


Gas generator set

Sound-proof type

GR12S-LPG

SPECIFICATIONS



1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformance Européenne (CE)
- ISO8528-5:2005
- GB/T2820.5-2009

Environmental Operating Conditions

- Installation place: Indoors (well ventilated).
- Ambient temperature: -25°C to 50°C. The coolant heater is needed when the temperature is below 5°C
- Humidity: Less than 80%.
- Altitude: Below one thousand (1000) meters above sea level.

Fuel Requirement

- Fuel type: LP Gas.
- Supply gas pressure: 5kPa to 30kPa.
- LHV: More than 84.2MJ/Nm³ or 20110kcal/Nm³(vapor).

Factory Inspection

- Inspection items.
- Protection devices working test.
- Starting ability in normal temperature.
- 50% rated power load moment capability.
- Voltage deviation and speed variation: 0%, 25%, 50%, 75%, 100%, 110% Load.

Painting Process

- Painting process specifications and colors are based on the manufacturer's standard.
- The customer could also choose the color which the manufacturer offers.

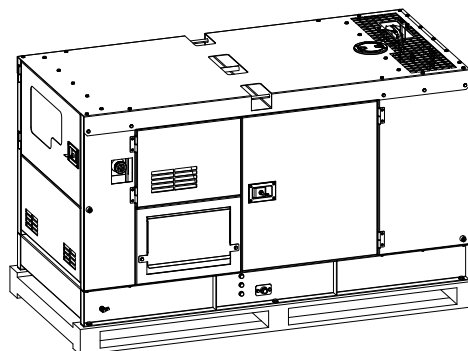
2 General Features

- POWERLINK engine GR1.8E01L
- Close coupled to a Mecc alte alternator ECP28-S/4
- Microprocessor control module GCC92
- Main circuit breaker: 25A
- Excitation system: Self excited
- A.V.R model: DSR
- Emergency stop switch

- Time counter
- 1x12V/72AH Sealed for life maintenance free battery
- Gas train
- Air-fuel ratio control system
- Speed control system
- Powder coated canopy
- Lockable battery isolator switch
- Oil filter
- 50°C radiator
- Steel base frame with lifting lugs
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Operator's Manual / Specifications

3 Equipment Specification

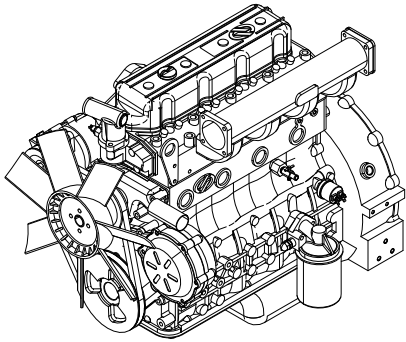
General technical data



Model.....GR12S-LPG
 Structure type R
 Dry weight..... 725kg
 Noise level @7m 50dBA
 Dimensions L×W×H..... 1800X865X1076mm
 Prime Power 15kVA/12kW
 Electric efficiency..... 28.6%

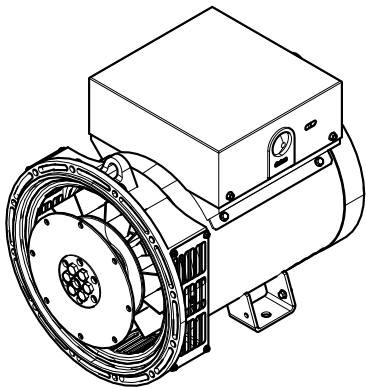
| Voltage | 380V | 400V | 415V | |
|--------------------|-------|-------|-------|------|
| Ampere | 22.8A | 21.7A | 20.9A | |
| LP Gas Consumption | | | | |
| Load | 25% | 50% | 75% | 100% |
| m ³ /h | 0.72 | 1.2 | 1.8 | 2.28 |
| kg/h | 1.4 | 2.2 | 3.4 | 4.3 |

Gas engine



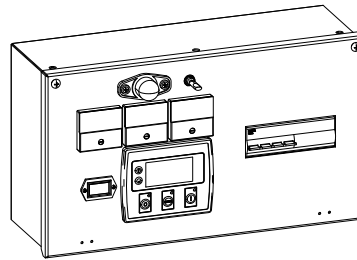
| | |
|---------------------------------|--------------------|
| Engine Manufacturer/Brand | POWERLINK |
| Engine Model | GR1.8E01L |
| Dry Weigh (approx.) | 156Kg |
| Number of Cylinders | 4 |
| Bore | 80mm |
| Stroke | 90mm |
| Displacement | 1.809L |
| Compression Ratio | 10.5 |
| Burn type | stoichiometric |
| Excess air factor | 1.2 |
| Intake System | Natural aspiration |
| Cooling System | Water cooled |
| Fan | Pusher |
| Battery Voltage | 12V |
| Type of Fuel | LP Gas |
| Type of Oil | SAE 40 |
| Type of Coolant | Glycol mixture |
| Prime Power | 16kW |

Alternator



| | |
|---|----------------------------------|
| Alternator Manufacturer/Brand | Mecc alte |
| Alternator Model | ECP28-S/4 |
| Exciter | Brushless |
| Cooling Fan | Cast alloy aluminum |
| Windings | 100% copper |
| Insulation Class | H |
| Winding Pitch | 2/3 |
| Terminals | 12 |
| Drip Proof | IP23 |
| Altitude | ≤1000m |
| Overspeed | 2250rpm |
| Air Flow | 5.3m³/min(50Hz), 5.8m³/min(60Hz) |
| Voltage Regulation | ±1.0% |
| Total harmonic TGH / THCat no load < 1.5 % - on load < 5% | |
| Telephone Interference | THF<2%;TIF<45 |

GCC92 Control System

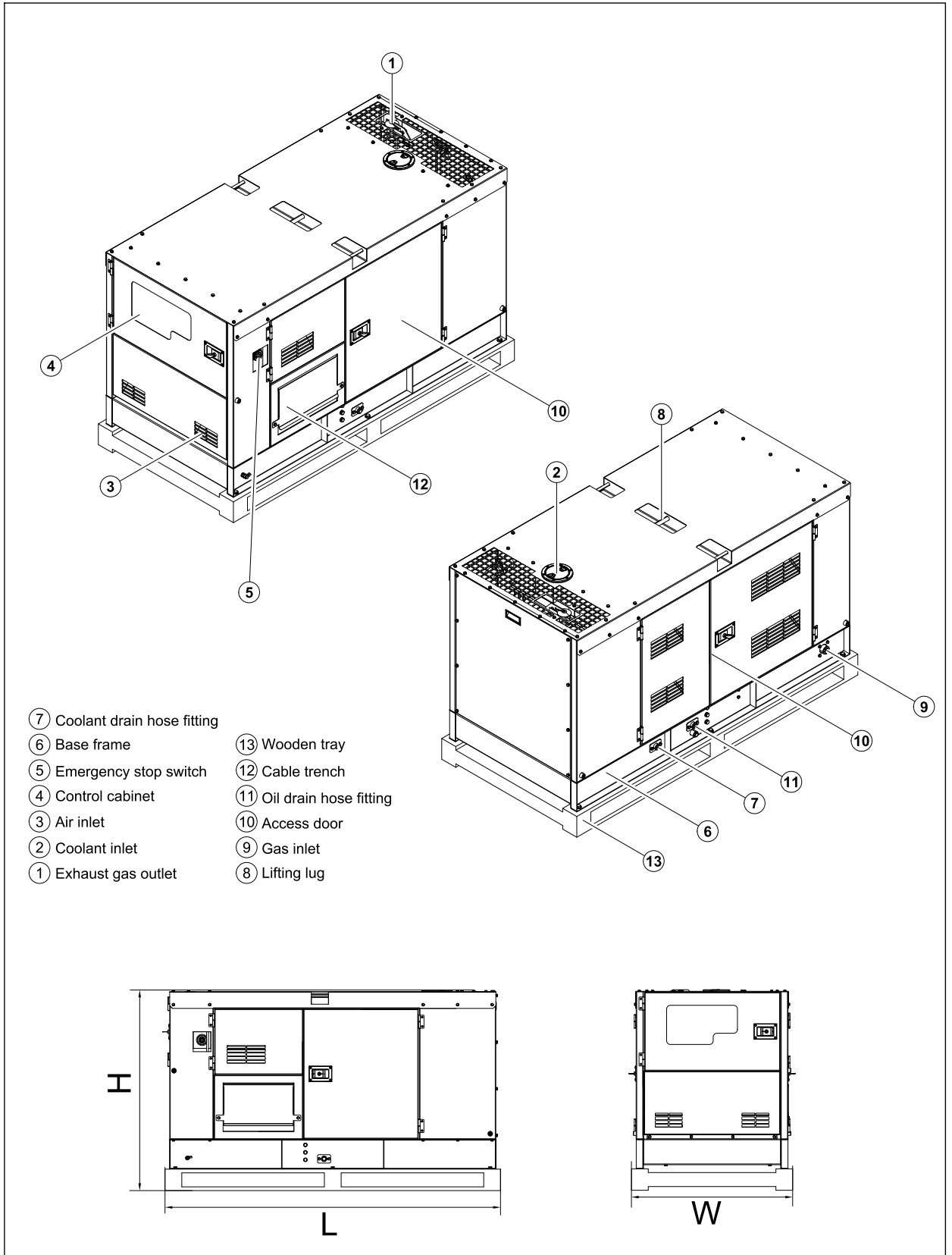


GCC92 is an advanced control module based on micro-processor designed to control the engine via a key switch and push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and giving a true first up fault condition of an engine failure.

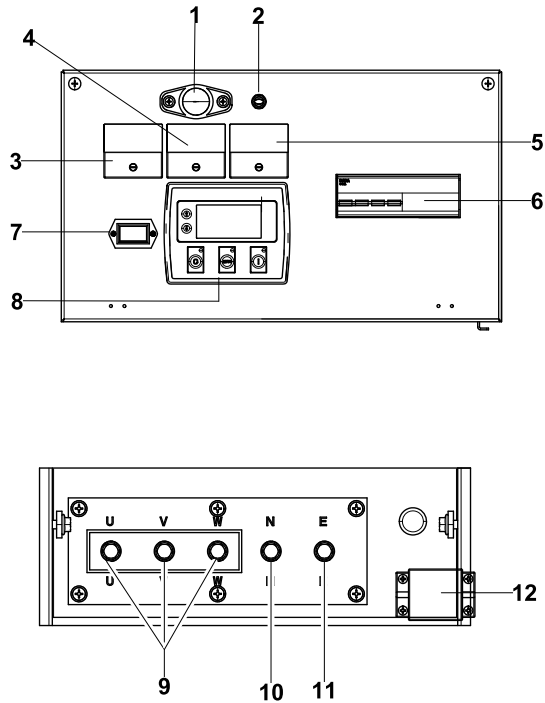
Standard Control Function

- Manual Engine Control Module
- Low Oil Pressure
- High Engine Temperature
- Auxiliary Shutdown
- Overspeed Protection
- Protection hold-off timer
- Charge Failure warning

4 Overall Dimensions

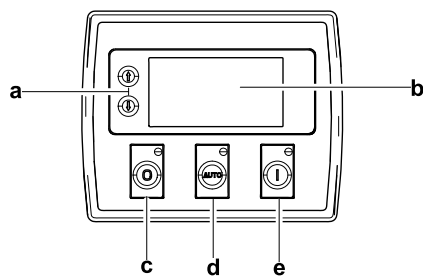


5 Control System



Control & field wiring cabinet

| Ref. | Description |
|------|-----------------------------|
| 1 | Control cabinet lamp |
| 2 | Control cabinet lamp switch |
| 3 | Voltage meter |
| 4 | Current meter |
| 5 | Frequency meter |
| 6 | Main circuit breaker |
| 7 | Time counter |
| 8 | Control module |
| 9 | Live wire terminal |
| 10 | Neutral wire terminal |
| 11 | Ground wire terminal |
| 12 | Remote control/Mains input |



Control module

| Ref. | Description |
|------|--|
| a | Navigation button; Accept (Configuration mode only) |
| b | Main status display |
| c | Stop/reset button; Next page (Configuration mode only) |
| d | Auto start button; Decrease value/next item (Configuration mode only) |
| e | Start button; Increase value/next item (Configuration mode only) |

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<http://www.powerlinkworld.com>

*Specification may change without prior notice. For more info.,
contact Power Link or your local distributors please.*