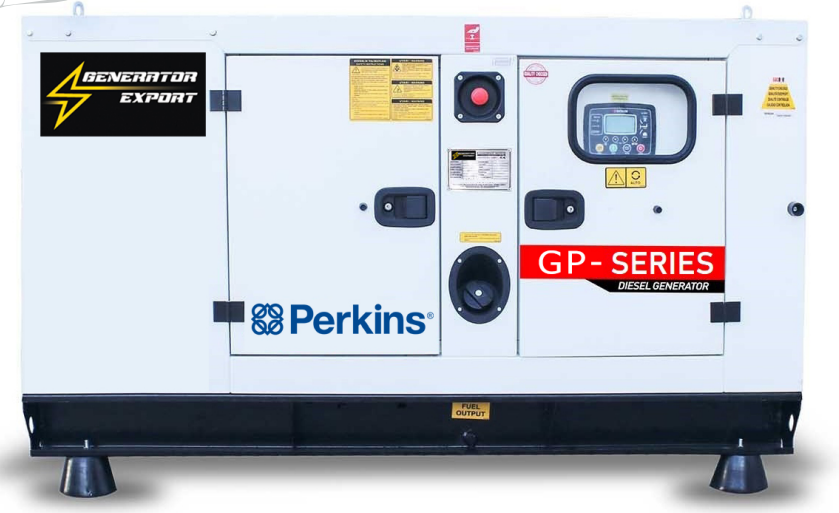
# GP22

INDUSTRIAL RANGE

Perkins




## GENERATING SETS

WATER COOLED · THREE PHASES · 50 HZ · DIESEL

| Service | | Standby | Prime |
|---|---|---|---|
| Power | *kVA* | 22,1 | 20 |
| Power | *kW* | 17,7 | 16 |
| Rated Speed | *r.p.m* | 1500 | |
| Standart Voltage | *V* | 400/230 | |
| Rated At Power Factor | *Cos Phi* | 0,8 | |

Company with quality certification ISO 9001
gensets are compliant with EC mark which includes the following directives:

- 2006/42/EC Machinery safety.
- 2014/30/EU Electromagnetic compatibility.
- 2014/35/EU electrical equipment designed for use within certain voltage limits
- 2000/14/EC Sound Power level. Noise emissions outdoor equipment. (amended by 2005/88/EC)
- 97/68/EC Emissions of gaseous and particulate pollutants. (amended by 2002/88/EC & 2004/26/EC)
- EN 12100, EN 13857, EN 60204

Ambient conditions of reference according to ISO 8528-1:2005 normative: 1000 mbar, 25ºC, 30% relative humidity.
G2 class load acceptance in accordance with ISO 8528-5:2013

CE

# SPECIFICATIONS

## Perkins Engine

| Engine | | Specifications |
|---|---|---|
| Standby Power/Prime Power | kWm | 20,6 / 18,7 |
| Manufacturer | | Perkins |
| Model | | 404A-22G1 |
| Engine Type | | 4 Stroke - Diesel |
| Injection Type | | Indirect Injection |
| Aspiration Type | | Naturally Aspirated |
| Number of cylinder | | 4 |
| Bore and Stroke | mm | 84X100 |
| Displacement | L | 2,216 |
| Cooling System | | Water Cooling |
| Hecting Power | Watt | 1000W |
| Fuel Consumption 50% PRP | l/h | 2,9 |
| Fuel Consumption 75% PRP | l/h | 4,0 |
| Fuel Consumption 100 % PRP | l/h | 5,3 |
| Fuel Consumption Standby | l/h | 6,1 |
| Oil fuel consumption ratio | %fuel | ≤0.15% |
| Total oil capacity including tubes, filters | L | 10,6 |
| Total coolant capacity | L | 7 |
| Governor | Type | Mechanical |
| Electric system voltage(V) | V | 12V |

## LEROY SOMER Alternator

| Alternator | | Specifications |
|---|---|---|
| Manufacturer | | Leroy Somer |
| Model | | TAL-A40-F |
| Output Voltage | V | 230/400 |
| Frequency | HZ | 50 |
| Automatic Voltage Regulation | ±% | 1 |
| Alternator Standby Power | kVA | 22 |
| Alternator Continuous Power | kVA | 20 |
| Power Factor | Cosq | 0,8 |
| Number of Wires | | 12 |
| Winding | | 2/3 |
| Protection Class | | IP23 / H |
| Excition System | | Self Excited |
| AVR Model | | R120 |
| Performance - PF 0,8 / %75 Load | % | 85,5 |

**Prime Power (PRP):**

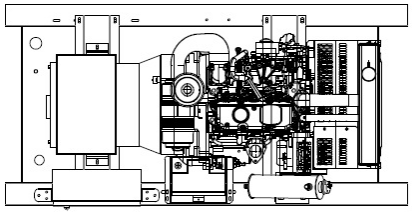
According to ISO 8528-1:2005, Prime power is the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output (Ppp) over 24 h of operation shall not exceed 70 % of the PRP.

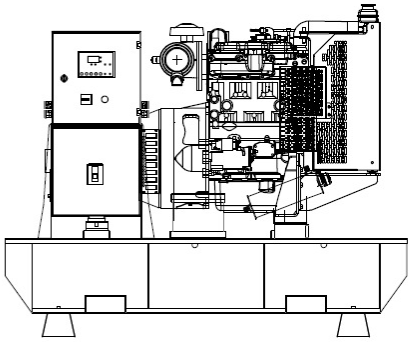
**Emergency Standby Power (ESP):**

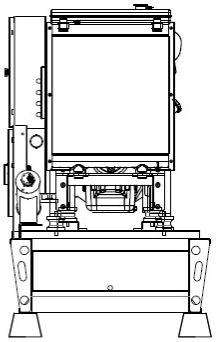
According to ISO 8528-1:2005, Emergency standby power is the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 h of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. The permissible average power output over 24 h of operation shall not exceed 70 % of the ESP.

**Note:** All data based on operation to ISO 3046/1, BS 5514 and DIN 6271 standard reference conditions

# DIMENSIONS

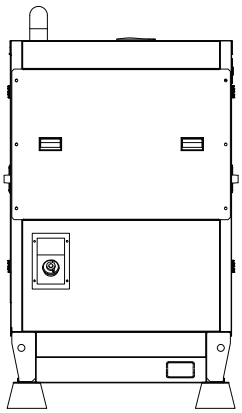


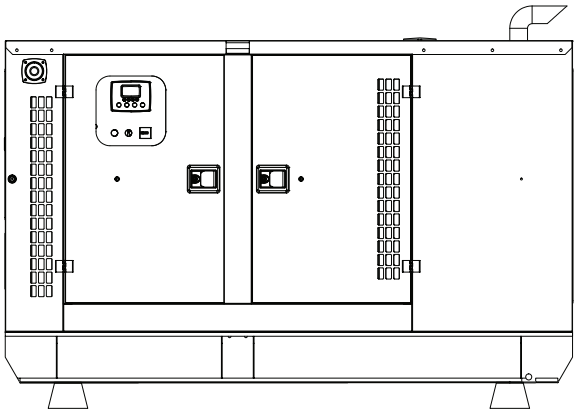




## OPEN SET

| | | |
|---|---|---|
| **LxWxH** | *mm* | 1500x750x1100 |
| **Weight** | *kg* | 690 |
| **Fuel Tank** | *lt* | 70 |





## CANOPIED

| | | |
|---|---|---|
| **LxWxH** | *mm* | 1900x920x1180 |
| **Weight** | *kg* | 800 |
| **Fuel Tank** | *lt* | 70 |

**Sound Proof Canopy**

- Special design for minimizing acoustic level.
- Galvanized steel construction further protected by polyester powder coat paint.
- Black finish stainless steel locks and hinges.
- Control panel viewing window in a lockable access door.
- Emergency stop push button (red) mounted on enclosure exterior.
- Lifting, drag and jacking points on base frame.
- Radiator fill via removable, flush mounted rain cap fitted with compression seal.
- Acoustic insulation with moisture-repellent and non-flammable material


- DeepSea 7320
- ComAp AMF9 / AMF25