

## GPR 103

| Engine Speed<br>rpm | Frequency<br>Hz | Type of<br>Operation | Genset Power |      | Engine Power (Net) |       |
|---------------------|-----------------|----------------------|--------------|------|--------------------|-------|
|                     |                 |                      | kVA          | kW   | kWm                | bhp   |
| 1500                | 50              | Prime Power          | 93           | 74,5 | 83,0               | 111,5 |
|                     |                 | Stand-by Power       | 103          | 82,5 | 91,5               | 122,5 |

STANDARD SPECIFICATIONS

#### Engine

- PERKINS Heavy duty diesel engine
- Revolution: 1500 rpm
- Water cooled
- Tropical type radiator

#### Alternator

- VDE 0530 & IEC 34-1 standardizations
- Synchron type brushless
- Automatic voltage regulation (AVR)
- Overload acceptance: 110% for 1 hour, 150% for 2 minutes
- Short circuit resistance: 300 for 10 seconds
- Insulation class: H
- Insulation resistance: 1800 VAC
- Voltage: 230/400 V three phase
- Voltage regulation:  $\pm 0,5\%$
- Protection class: IP23
- Power factor (cos $\phi$ ): 0,8
- Frequency: 50 Hz

#### Manuel Control Panel

- Microprocessed Electronic Control Panel
- Relays
- Protection fuses
- Thermic magnetic circuit breaker (TMS) 3-pole
- Emergency stop button

#### Automatic Control Panel

- Microprocessed AMF Electronic Control Panel
- Protection fuses
- Battery charger
- Power Transfer (For ATS)
- Emergency stop button

#### Chassis

- Mounted on the steel base chassis
- Elastic vibration dampers between engine and chassis
- Chassis integrated fuel tank
- Dial type mechanical fuel indicator

#### Canopy

- Easy lifting and moving
- Metal parts are coated with electrostatic polyester coated, powder painted
- Thermally insulated exhaust system
- Acoustic insulation with rot\*proof, moisture-repellent and non-flammable material (per DIN 4102 A2)



#### ENGINE

|                        |                   |
|------------------------|-------------------|
| Make                   | PERKINS           |
| Model                  | 1006TG1A          |
| Number of Cylinder     | 6                 |
| Cylinder arrangement   | Vertical In-Line  |
| Aspiration             | Turbocharged      |
| Combustion system      | Direct Injection  |
| Compression ratio      | 16:1              |
| Bore and Stroke        | mm 100 x 127      |
| Displacement           | lt 5.99           |
| Cooling System         | Water Cooled      |
| Total coolant capacity | lt 27.7           |
| Total lubrication      | lt 16.1           |
| Governor Type          | Mechanic Governör |
| Electric System        | 12 VDC            |

|                               |      |       |
|-------------------------------|------|-------|
| Fuel Consumption %50 Loaded   | lt/h | 11,4  |
| Fuel Consumption %75 Loaded   | lt/h | 16,5  |
| Fuel Consumption % 100 Loaded | lt/h | 21,8  |
| Fuel Tank Cap. Open (canopy)  | lt   | 165   |
|                               | lt   | (359) |

#### DIMENSIONS

|                              |    |             |
|------------------------------|----|-------------|
| Width w/o Canopy (w/canopy)  | mm | 760 (1100)  |
| Length w/o Canopy (w/canopy) | mm | 1960 (2950) |
| Height w/o Canopy (w/canopy) | mm | 1580 (2250) |
| Weight w/o Canopy (w/canopy) | kg | 1075 (1734) |

TECHNICAL SPECIFICATIONS



ISO 9001:2008  
OHSAS 18001:2007  
ISO 14001:2004



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\* AAC: air-to-air charge cooling: Charged hot air by turbo is cooled by the air radiator in system.

\*\* WAC: water-to-air cooling: Charged hot air by turbo is cooled by water in the cooling system.

Genpower, reserves the right to modify the characteristics of its product any time in order to incorporate the latest technological developments.

The information contained in this document may therefore be changed without notice. For more technical data and information please contact to GENPOWER