

## DESIGN SPECIFICATIONS

- High quality, reliable, long life and complete Genset unit.
- Suit all purpose and demands.
- Full engineered with a broad range of options:
  - Electrical.
  - Mechanical.
  - Soundproof canopy.
  - Road trailer.



## STANDARD SPECIFICATION

### ENGINE

- Perkins Diesel Engine.
- Four stroke, direct injection.
- Turbocharged air-to-air.
- Water Cooling system.
- Radiator with a puller fan.
- Oil and fuel filters.
- Electronic governing
- Heavy duty air cleaner.
- Mounted air filter and turbocharger.
- 12 Volt electric starting.
- Battery charging alternator.
- Industrial type exhaust silencer.

### ALTERNATOR

- Single bearing, Rotating Field alternator.
- Brushless, self excited and regulated type.
- Solid state AVR with +/-1% voltage regulation as standard.
- Class "H" Insulation.
- IP21 protection class.

### CONTROL SYSTEM

Standard features of Control Panel is equipped as follows:

#### instruments:

- Voltmeters.
- Ammeter.
- Frequency meter.
- Tachometer with built in hour meter.
- Oil pressure gauge.
- Engine temperature gauge.
- Battery Charging lamp.
- MCCB.

Alarm indicator leds for The panel automatically stops the Genset in case of any abnormal running operation occurred, such as:

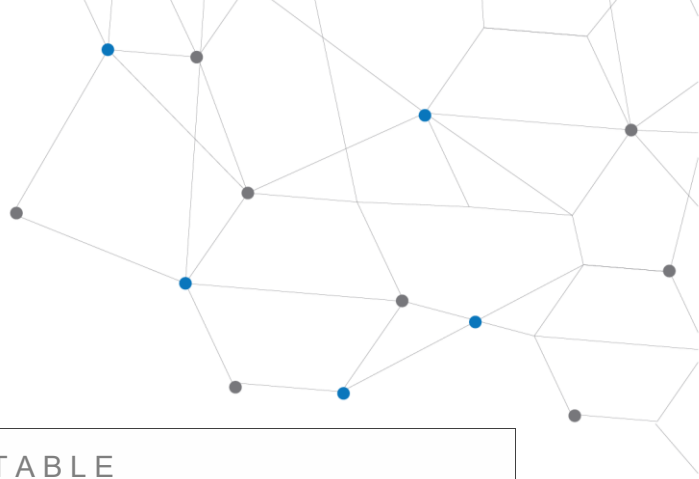
- High engine temperature.
- Low oil pressure.
- Over speed.
- Fault alarm

### Bravo Generating Sets Ratings

Bravo gensets are rated in accordance with ISO 8528-1 standard conditions. Each genset complies with BS5514, ISO 3046 standard testing conditions for diesel engines and BS EN60034, BS 5000, VDE 0530, NEMA1 MG1-22, IEC 34, CSAC 22.2-100, AS1359 Alternators international standards.

### Optional Equipment's:

- ✓ Manual or automatic transfer switch-parallel operation.
- ✓ Remote communication.
- ✓ Stationary, containerized or mobile construction.
- ✓ Enclosures "weatherproof and soundproof".



| SELECTION TABLE       |                  |                   |           |           |           |
|-----------------------|------------------|-------------------|-----------|-----------|-----------|
| GENERATING SETS MODEL | ENGINE MODEL     | ELECTRICAL OUTPUT |           |           |           |
|                       |                  | 50 Hz, 1500 RPM   |           |           |           |
|                       |                  | PRIME             |           | STANDBY   |           |
|                       |                  | KW                | KVA       | KW        | KVA       |
| <b>PRM38</b>          | <b>1103A-33G</b> | <b>24</b>         | <b>30</b> | <b>26</b> | <b>33</b> |

**Prime Power** ratings are applicable for supplying electric power with 10% overload capability available for 1h/12h.

**Standby Power** ratings are applicable for supplying electric power in the event of power failure with no overload capability available for these ratings

| ALTERNATOR         |                 |
|--------------------|-----------------|
| No of Poles        | 4               |
| Voltage            | 380 – 220 – 110 |
| No of Phases       | 3               |
| Rated power factor | 0.8             |
| Voltage Regulation | + / - 1.0%      |

| Fuel Consumption                        |           |
|---|-----------|
| Fuel Consumption for prime power        | 7.1 L/hr. |
| Daily Fuel Tank capacity for the Canopy | 251 L     |
| Daily Fuel Tank capacity for the Open   | 152 L     |

| Overall Dimensions and Approximate Weight |                  |                 |      |      |               |
|---|------------------|-----------------|------|------|---------------|
| Type                                      | Engine Model     | Dimensions (Mm) |      |      | Genset Weight |
|   |                  | L               | W    | H    | Kg            |
| Open                                      | <b>1103A-33G</b> | 1800            | 700  | 951  | 780           |
| Sound Proof                               | <b>1103A-33G</b> | 2200            | 1000 | 1150 | 1110          |