



## Generator Set Technical Specification Sheet

**Model: GBW20**

**General Features:**

|                         | 3 Phase     | 1 Phase      |
|-------------------------|-------------|--------------|
| Emergency standby power | 19.1 kVA    | 11.2 kVA     |
|                         | 15.3 kW     | 10.1 kW      |
| Continuous power        | 17.4 kVA    | 10.2 kVA     |
|                         | 13.9 kW     | 9.2 kW       |
| Power factor            | 0.8 Cosfi   | 0.9 Cosfi    |
| Nominal voltage         | 400 Y Volt  | 230          |
| Nominal frequency       | 50 Hz       | 50           |
| Alternator connections  | <b>Star</b> | <b>Delta</b> |

Referring to conditions as DIN6271, altitude 100m above sea level, temperature 27°C, humidity 60%

**Engine:**

|                                     |          |                      |
|-------------------------------------|----------|----------------------|
| Brand / Model                       |          | Yanmar / 4 TNE 88 PG |
| Type / Stroke                       |          | Diesel / 4 stroke    |
| Number of cylinders / Configuration |          | 4 / in-line          |
| Cubic capacity                      | cc       | 2190                 |
| Aspiration                          |          | Natural              |
| Cooling system                      |          | Water                |
| Starting system / voltage           |          | Electric / 12        |
| RPM                                 | rpm      | 1500                 |
| Horsepower                          | kW       | 18.1                 |
| Oil capacity                        | Litres   | 8.6                  |
| Coolant capacity                    | Litres   | 20.0                 |
| Fuel consumption 75% load           | Litres/h | 3.3                  |
| Governor                            |          | Mechanical to G2     |

**Alternator:**

|                       |            |  |
|-----------------------|------------|--|
| Brand / Model         |            | Mecc Alte ECO 28 1L/4                          |
| Number of poles / rpm |            | 4 pole / 1500 rpm                              |
| Voltage / Frequency   | Volts / Hz | 400 Y / 50                                     |
| Nominal power         | kVA        | 21.2   |
| Power factor          | Cosfi      | 0.8  |
| Active power          | kW         | 17.0   |
| Efficiency @ 75% load | %          | 84.7   |
| Maximum overload      |            | 10% for 1 hour in every 6 hours of operation   |
| Voltage regulator     |            | Electronic (±1.5% with engine governing of 4%) |

**General Installation Data**

|                              |                     |      |
|------------------------------|---------------------|------|
| Engine coolant flow          | litre/min           |      |
| Combustion air flow          | m <sup>3</sup> /min | 2.0  |
| Cooling air airflow          | m <sup>3</sup> /min | 20.3 |
| Exhaust gas flow             | m <sup>3</sup> /min | 1.32 |
| Exhaust gas temperature      | °C                  | 460  |
| Exhaust system back pressure | kPa                 |      |

**Overall Dimensions & Weight:**

|   | Unit in Silenced, Weatherproof Canopy |            |
|---|---------------------------------------|------------|
| <b>Overall Dimensions &amp; Weight:</b> | Open Set                              | Canopy Set |
| Length                                  | mm 1800                               | 1850       |
| Width                                   | mm 900                                | 900        |
| Height                                  | mm 1040                               | 1130       |
| Weight                                  | kg 550                                | 617        |
| Fuel tank capacity                      | Litres 60                             | 60         |
| Run time on full tank of fuel           | h 18.1                                | 18.1       |
| Noise level @ 7 mtrs                    | dB(A)                                 | 71         |

The specifications quoted above are a guide only and in line with our policy of continuous product development we reserve the right to vary the specifications at any time without notice