

## DIESEL GENERATOR SET DE110D5 / DE110D6

### SPECIFICATION

| MODEL   | Power rating    |        | Voltage available |          |          |          |
|---------|-----------------|--------|-------------------|----------|----------|----------|
|         | PRIME(1)        |        | STANDBY(2)        |          |          |          |
| DE110D5 | 400V/50Hz       | 80KW   | 88KW              | 380/220v | 400/230v | 415/240v |
|         | PF:0.8          | 100KVA | 110KVA            |          |          |          |
| DE110D6 | 220V/60Hz       | 80KW   | 88KW              | 208/120v | 220/127v |          |
|         | 240/139v PF:0.8 | 100KVA | 110KVA            | 380/220v | 440/254v | 480/277v |

### GENERAL INFORMATION

#### DIESEL GENERATOR SET

|                     |                         |           |
|---------------------|-------------------------|-----------|
| Model               | DE110D5 / DE110D6       |           |
| Motor               | DEUTZ BF4M1013EC        |           |
| Alternator          | MECCALTE OR STAMFORD    |           |
| OSpeed Control type | Mechanical / Electrical |           |
| Phase               | Three                   |           |
| Fuel Tank Capacity  | 300 L                   |           |
| System Voltage      | 24V                     |           |
| Frequency           | 50HZ                    | 60HZ      |
| Air Flow            | 6100m³/h                | 7600m³/h  |
| Combustion air flow | 365.3m³/h               | 465.6m³/h |
| Exhaust air flow    | 1102m³/h                | 1316m³/h  |
| Exhaust Temperature | 560 °C                  | 520 °C    |



#### Engine

|                      |                    |            |
|----------------------|--------------------|------------|
| Maximum output(kw)   | 88KW(50Hz)         | 88KW(60Hz) |
| Number of Cylinders  | inline 4           |            |
| Aspiration           | Turbo charged, CAC |            |
| Cycle                | 4                  |            |
| Fuel Type            | Diesel             |            |
| Combustion Type      | Direct Injection   |            |
| Cooling Type         | Water cooled       |            |
| Bore                 | 108mm              |            |
| Stroke               | 130mm              |            |
| Displacement         | 4.76L              |            |
| Compression Ratio    | 19:1               |            |
| Lubrication Capacity | 11 liter           |            |
| Coolant Capacity     | 7.4 liter          |            |

| FUEL CONSUMPTION    | 1500 RPM | 1800 RPM |
|---------------------|----------|----------|
|                     | L/hr     | L/hr     |
| 100% Prime Power(1) | 25.8     | 28       |
| 75% Prime Power(1)  | 19.3     | 21.1     |
| 50% Prime Power(1)  | 13.1     | 14.5     |
| 25% Prime Power(1)  | 7.2      | 8.3      |

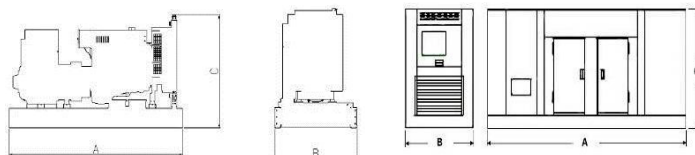
#### Alternator

|                  |                        |
|------------------|------------------------|
| Insulation       | Clase "H"              |
| Excitation Type  | Self-excitation or PMG |
| Protection class | IP23                   |

| DIMENSION  | OPEN   | SILENT |
|------------|--------|--------|
| Length (A) | 2300mm | 2900mm |
| Width (B)  | 1080mm | 1080mm |
| Height (C) | 1580mm | 1970mm |
| Net Weight | 1335kg | 1735kg |

#### Certificates

|               |                             |
|---------------|-----------------------------|
| Engine        | ISO 3046, BS 5514, DIN 6271 |
| Alternator    | UTE NFC 51-111-105-110      |
|               | ICE34-1, BS 5000-4999       |
|               | NEMA MG 21, VDE 0530        |
| Generator Set | ISO 8528                    |



(1) Prime Power: ratings are as per DIN 6271, BS55114 and ISO-3046 with 10% overload capacity

(2) Standby Power: power available at variable load for up to a maximum of 500 hours during one year of which 300 hours may be for continuous use

(3) Operation at Altitude  $\leq 1500\text{m}$ , Ambient temperature  $\leq 40^\circ\text{C}$ . If altitude higher than 1500m, each 300m will cause additional de-rating 4%.