

## ■ General Characteristics



| Item                   | Data              |
|------------------------|-------------------|
| Standby Power (kVA)    | 2500              |
| Standby Power (kW)     | 2000              |
| Prime Power (kVA)      | 2250              |
| Prime Power (kW)       | 1800              |
| Power Factor (Cos Phi) | 0.8               |
| Diesel Engine          | 16V4000G63        |
| Frequency (Hz)         | 50                |
| Rated Speed (rpm)      | 1500              |
| Phase                  | 3                 |
| Standard Voltage (V)   | 400/230           |
| Available Voltages (V) | 380/220 · 415/240 |

### ● Power Definition

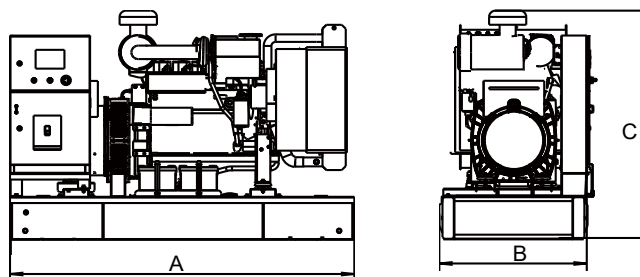
**Standby Power(ESP):** The standby power rating is applicable for supply emergency power in variable load applications in accordance with ISO8528-1, overload is not allowed.

**Prime Power(PRP):** The prime power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO8528-1.

### ● Terms of use

According to the standard, the nominal power assigned by the genset is given for 25 °C air inlet temperature, of a barometric pressure of 100 kPa (100m A.S.L) and 30%.

## ■ Dimensions , weights & Fuel Tank



**Note:** General configuration not to be used for installation. See general dimension drawings for detail.

| Model     | Constructure | Dim "A" mm | Dim "B" mm | Dim "C" mm | Dry Weight kg | Fuel Tank Capacity L |
|-----------|--------------|------------|------------|------------|---------------|----------------------|
| PML2500-O | Open set     | 6000       | 2575       | 2560       | -             | REQ                  |
| PML2500-P | Silent set   | 12192      | 2438       | 2896       | -             | REQ                  |

## ■ Engine Data

| General Engine Data                    |                              |
|--|------------------------------|
| Engine brand                           | MTU                          |
| Engine model                           | 16V4000G63                   |
| Engine type                            | 4-stroke diesel              |
| Governor type                          | ECU                          |
| Injection type                         | Direct                       |
| Aspiration type                        | Turbocharger and intercooler |
| Number of cylinders and arrangement    | 16-V                         |
| Bore and stroke (mm*mm)                | 170X210                      |
| Displacement (L)                       | 76.3                         |
| Cooling system                         | Water-cooled                 |
| Lube oil consumption with full load    | 0.5%-1% of fuel consumption  |
| Compression Ratio                      | 16.4:1                       |
| Air Filter                             | Dry                          |
| Fuel Consumption                       |                              |
| Fuel Consumption @ 100% load ESP (L/H) | -                            |
| Fuel Consumption @ 100% load PRP (L/H) | 411.7                        |
| Fuel Consumption @ 75% load PRP (L/H)  | 312                          |
| Fuel Consumption @ 50% load PRP (L/H)  | 218.8                        |
| Air System                             |                              |
| Intake air flow (L/s)                  | -                            |
| Cooling air flow (m <sup>3</sup> /s)   | 2.6                          |
| Exhaust System                         |                              |
| Maximum exhaust temperature (°C)       | 490                          |
| Exhaust gas flow (L/s)                 | 6600                         |
| Maximum allowed back pressure (kPa)    | 8.5                          |
| Starting System                        |                              |
| Starting power(kW)                     | 9                            |
| Recommended battery (Ah)               | 120                          |
| Number of Batteries                    | 4                            |
| Auxiliary voltage (Vdc)                | 24                           |
| Oil System                             |                              |
| Engine oil capacity (L)                | 260                          |
| Cooling System                         |                              |
| Total coolant capacity (L)             | 225                          |

## ■ Alternator Data

| Alternator Data                |                                |
|--------------------------------|--------------------------------|
| Number of phase                | 3                              |
| Power factor (Cos Phi)         | 0.8                            |
| Poles                          | 4                              |
| Winding Connections (standard) | Star-serie                     |
| Insulation                     | H class                        |
| Enclosure(according IEC-34-5)  | IP23                           |
| Excitation system              | Self-excited, brushless        |
| Voltage regulator              | AVR (Electronic)               |
| No. of bearings                | Single bearing                 |
| Coupling system                | Flexible disc                  |
| Coating type                   | Standard (Vacuum impregnation) |

## ■ Control Module



### Protections with alarm

- Engine protections: low fuel level, low oil pressure, high engine temperature.
- Genset protections: under/over voltage, overload, under/over frequency, starting failure, under/over battery voltage

### Other Protections

- Emergency stop button.
- Panel protected through door with lockable handle

### Digital Instrumentation

- Generating set voltage.
- Mains voltage.
- Generating set frequency.
- Generating set current.
- Battery voltage.
- Power (kVA-kW-kVAr)
- Power factor Cos  $\phi$ .
- Hours-counter
- Engine speed r.p.m
- Fuel level (%)

### Commands and other

- Four operation modes: OFF - Manual starting - Automatic starting - Automatic test
- Pushbutton for forcing Mains contactor or Genset contactor.
- Push-buttons: start/stop, fault reset, up/down/page/enter selection.
- Remote starting availability.
- DC system disconnection switch.
- Acoustic alarm.
- Automatic battery charger.

### Protections with shutdown

- Engine protections: low fuel level, low oil pressure, high engine temperature,
- Genset protection: under/over voltage, overload, under/over battery voltage, battery charger failure.
- Circuit breaker protection: III poles.
- Earth Fault included in the control unit.