

## GMP-18000P3 [3P - 50Hz - 400/230V]



### Main Features

|              |            |         |
|--------------|------------|---------|
| Frequency    | Hz         | 50      |
| Voltage      | V          | 400/231 |
| Power factor | cos $\phi$ | 0.8     |
| Phase        |            | 3       |

### Power Rating

|                             |     |       |
|-----------------------------|-----|-------|
| Emergency Standby Power ESP | kVA | 18.49 |
| Emergency Standby Power ESP | kW  | 14.79 |
| Prime power PRP             | kVA | 18.16 |
| Prime power PRP             | kW  | 14.53 |
| Continuous power COP        | kVA | 16.19 |
| Continuous power COP        | kW  | 12.95 |

Ratings definition (According to standard ISO8528 1:2005)

### Engine specifications

|                               |                 |      |
|-------------------------------|-----------------|------|
| Engine Brand                  | Yanmar          |      |
| Model                         | 3TNV80-FPGE     |      |
| [50Hz] Exhaust emission level | Stage V         |      |
| Engine cooling system         | Water           |      |
| Displacement                  | cm <sup>3</sup> | 1267 |
| Aspiration                    | Natural         |      |
| Operating Speed-Nominal       | rpm             | 3000 |
| Speed governor                | Mechanical      |      |
| Fuel                          | Diesel          |      |
| Oil capacity                  | l               | 4.4  |
| Coolant capacity              | l               | 0.9  |
| Starting system               | Electric        |      |
| Electric circuit              | V               | 12   |



### Alternator Specifications

|                           |          |     |
|---------------------------|----------|-----|
| Type                      | Brushes  |     |
| Class                     | H        |     |
| IP protection             | 23       |     |
| Poles                     | 2        |     |
| Frequency                 | Hz       | 50  |
| Voltage tolerance         | %        | 1.5 |
| Voltage regulation system | AVR      |     |
| Standard AVR              | AVR 960D |     |



### Dimensional data

|                    |        |      |
|--------------------|--------|------|
| Length             | (L) mm | 1500 |
| Width              | (W) mm | 754  |
| Height             | (H) mm | 1032 |
| Dry weight         | Kg     | 475  |
| Fuel tank capacity | l      | 51   |

### Autonomy

|                             |     |       |
|-----------------------------|-----|-------|
| Fuel consumption @ 75% PRP  | l/h | 4.61  |
| Fuel consumption @ 100% PRP | l/h | 5.99  |
| Running time 75% PRP        | h   | 11.06 |
| Running time 100% PRP       | h   | 8.51  |



### Noise level

|                              |       |    |
|------------------------------|-------|----|
| Guaranteed noise level (LWA) | dB(A) | 96 |
| Noise pressure level @ 7 m   | dB(A) | 67 |



**STEEL SUPPORTING FRAME:**

- Sturdy Supporting Frame for moto-alternator and canopy.
- Anti-vibration mounting properly sized.



**FULLY BUNDED BASEFRAME:**

- Base forcable by forklift.
- Welder base with drainage point
- Big fuel integrated tank for an increased autonomy.
- Fuel level sensor.
- Fuel refilling point external for simple and rapid refueling operations (cap with key available as an accessory)

**EASY AND FAST MAINTENACE SERVICE:**

- Designed to access all components by opening the roof (opening and closing with safety key).
- Side door for engine service and maintenance (opening with locking system from inside the compartment)
- Oil draining pipe with cap.

**ENGINE COMPLETE WITH:**

- Battery
- Liquids (No Fuel)
- Water temperature sensor
- Lube oil pressure sensor



**CANOPY:**

- Modular type canopy designed for easy access to all components using only one side
- Weatherproof enclosure made of galvanized sheet metal.
- Noise attenuation thanks to high quality soundproofing material.
- Efficient residential silencer placed inside the canopy
- Single lifting points for easy Handling.



**GENSET CONTROL:**

- User friendly manual/remote start panel.
- Complete genset control and protection.
- Prepared for remote control
- Protection cover in plexiglass for controller



## GENSET CONTROL PANELS

Mounted on the genset, complete with digital control unit or monitoring, control and protection of the generating set.

### CONTROL SECTION

- CONTROL UNIT with Key 3 positions: OFF, ON local start, REM remote start.
- 2-wire remote start/stop (REM)
- CONNector for RSS / AMF panel (accessories available).
- Horn Alarm

### CONTROL UNIT

- Display: LCD with icons (52x35mm)
- Genset parameters: V- Hz – RPM – A (1Phase) – kVA – kWe – Fuel level (%)
- Parameters control and/or firmware transferring through NFC smart connect

### PROTECTIONS

- Circuit breaker.
- Genset Protection: Over load – current – voltage, High Coolant temperature, Low Oil pressure – Low fuel level.
- Emergency push button.

### SOCKET TYPE

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SCHUKO 230V 16A IP68

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2P+T CEE 230V 16A IP67

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3P+N+T CEE 400V 16A IP67

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3P+N+T CEE 400V 32A IP67

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## SUPPLEMENTS CONTROL (Available when ordered)

### PHS – Coolant pre-heating system

The coolant preheating system allow to mainain the engine at a temperature that ensures a quick start when required. Immersion heater 400W.



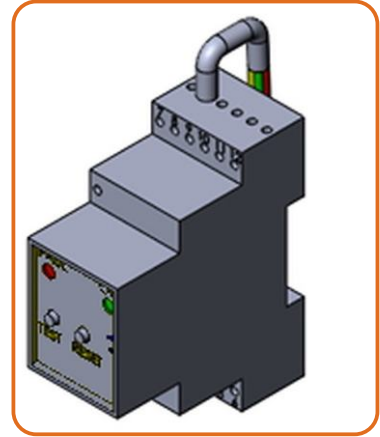
### DPP – Differential Protection

Differential protection is device used to protect installations against indirect contact (not compatible with IPP).



### IPP - Isometer Protection

Isometer Protection monitors the ungrounded system between an active phase conductor and earth (not compatible with DPP).



## ACCESSORIES CONTROL PANEL

### AMF - AUTOMATIC CONTROL PANEL

This accessory permits to control all the functions about a generator. It's built to monitor mono phase or three phase with neutral systems in alternate current; permits to transfer the user's load on generator when the mains voltage is faulty. Conversely, as soon as AMF system detects the power grid, it stops the generator.

#### **Equipment:**

- Control and protection unit (DGT)
- Phase detector
- Contactor with interblock
- Battery charged
- Acoustic alarm
- 8 meters control wiring (with CONNector)
- External start stop capability
- Emergency stop button

#### **Instrumentation (DGT):**

- Mains voltage
- Genset voltage
- Frequency meter
- Hour meter

#### **Alarm & Shutdowns:**

- Generators voltage out of limits
- Battery Voltage out of limits
- Low oil Pressure
- Fail to start
- External shutdown



### RSS - REMOTE START / STOP

RSS Remote start/stop wireless with CONNector (max Distance 90m)



## ACCESSORIES

FCK - Fuel cap with key



STR - Site Trailer

