

# P18000 400V 50Hz #AVR #MRS



## Main Features

Frequency	Hz	50
Voltage	V	400/230
Power factor	cos $\phi$	0.8
Phase		3

## Power Rating

Emergency Standby Power ESP	kVA	18.49
Emergency Standby Power ESP	kW	14.79
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	V	400
Voltage regulation system		AVR
Standard AVR		AVR 960D
Voltage tolerance	%	1.5

### 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 at 75% of Load	l/h	4.61
Fuel consumption at 100% of Load	l/h	5.99
Running time at 75% of load	h	11.06
Running time at 100% of load	h	8.51

### Noise level

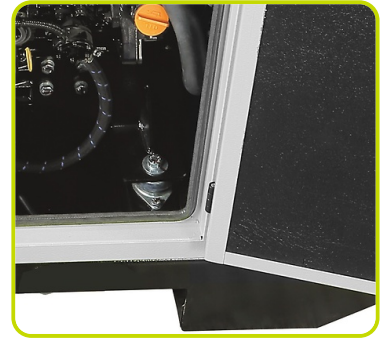
Guaranteed noise level (LWA)	dB(A)	96
Noise pressure level @ 7 m	dB(A)	67



## Genset equipment

### STEEL SUPPORTING FRAME:

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



### FULLY BUNDED BASEFRAME:

- Base forkliftable.
- 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)



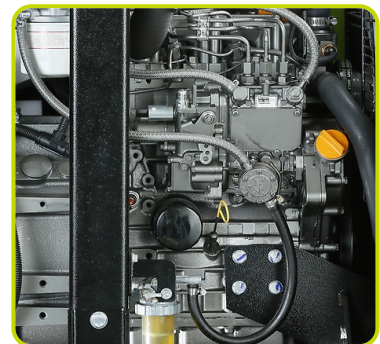
### EASY AND FAST MAINTENANCE SERVICE:

- 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

SCHUKO 230V 16A IP68	1
2P+T CEE 230V 16A IP67	1
3P+N+T CEE 400V 16A IP67	1
3P+N+T CEE 400V 32A IP67	1



## 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.



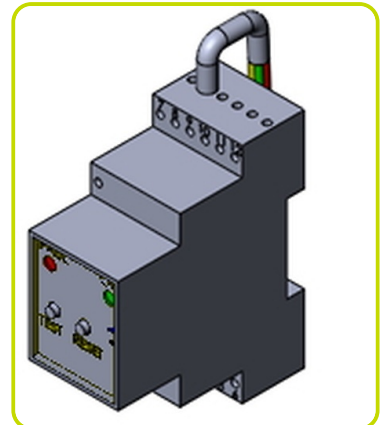
### DPP – Differential Protection

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; it 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

